

487

December 2019

# Scramble



*Hellenic Deltas  
Macedonian Air Power*

D U T C H   A V I A T I O N   S O C I E T Y



*These three Indonesian preserved aircraft have two things in common: they all have ties with the Netherlands and are photographed by Ad Jan Altevogt. Westland Wasp HS-434 was once operated by the Royal Netherlands Navy as 243. (Juanda, 8 October 2019)*



*North American B-25J Mitchell M-458 was once operated by the Royal Netherlands East Indies Air Force. It later went to the Indonesian Air Force and has been preserved at Jakarta. (29 September 2019)*



*Once operated by the Dutch as NI-474, this Douglas C-47 was, for many years, displayed in camouflage colours as T-462. The Air Force museum of Yogyakarta has now given the transport the correct identity and livery: T-474. (5 October 2019)*

## Editorial

The last Scramble of 2019 is lying in front of you. So, since the next issue will appear in January 2020, we would like to wish you a very merry Christmas and a fun and exciting New Year's Eve! Be careful with fireworks though...

Since the Aviation Day took place last weekend (30 November), we are not able to tell you who won the coveted NSK trophy, but our social media channels would have. Of course next issue we will be able to tell you who won and how the Aviation Day was attended in terms of visitors.

This month all sections are back again, plus two articles. The first one talks about Macedonian Air Power, an overview of the armed forces of this small country, visited by Bram Marijnissen and Rene Slegers. We also have a nice article on the Mirage 2000 in service of the Hellenic Air Force, made by Scramble Facebook News contributor George Karavantos.

We do not have a show report on Oldtimer Flieger Treffen held at Hahnweide on 14 September already, but we do have a nice selection of pictures of the warbird event, spread over the Warbirds and a dedicated photo page after the Civil News section.

You will notice in the colofon at the back that Showreports editor Bjorn van der Flier is no longer listed as the sole editor for that section. Scramble and Bjorn have decided to part their ways, and we thank Bjorn for his hard work. The Showreports will now be dealt with internally by individual editors but for our readers and contributors nothing changes. The look is still the same in the magazine!

We will soon start preparations for new editions of our returning yearly publications. For this we are looking for pictures to illustrate them. Obviously we like stunning front covers, which is a portrait-style photo at high resolution, which should be able to accommodate the Scramble logo and publication title below the subject. This leads to a minimum size requirement of 2100x3000 pixels. It is best to study a few Scramble front covers to see what we need.

## Cover Photo



*After the lost game against Tampa Bay Buccaneers, in the Raymond James Stadium, the management of the Arizona Cardinals went back to Phoenix in their Falcon 7X N1AZ. The team itself used an Atlas Air Boeing 747-400. (Tampa (FL), 10 November 2019, Walter Heukensfeld)*

## Important dates

Scramble 488	
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<b>SMS North America 2019-2020</b>	<b>183</b> pages
<b>Scramble Military Transports 2017</b>	<b>87</b> pages

# Movements Netherlands



The Airbus on this photo is one of an order for two via BOC Aviation. This A320neo was the second neo delivered to Uzbekistan Airways in April 2019. René Woerlee was able to take a photo of UK32022 when it was parked at Amsterdam - Schiphol-east on 23 October 2019.

## Amsterdam - Schiphol

Addition		September 2019		October 2019		November 2019		December 2019	
30.G-SHUI	Ce680A	Air Charter Scotland	01 EDC2R						
01.9H-JAD	CL-850	AirX Charter	dep AXY109						
9H-JLK	Falcon 7X	TAG Aviation Malta	04 TEU11						
D-AAAX	CL-604	Air Independence	02						
D-AIWJ	A320-214	Lufthansa	f/v DLH986/7						
D-BSUN	Do328-310	Sun-Air	f/v 02 SUS551						
D-CDAS	EMB505	DAS Private Jets							
D-CDCM	Ce560XLS+	Air Hamburg	02 AHO366X						
D-CEFE	Ce525C	Eisele Flugdienst	EFD4E						
D-IBCG	Ce525A	ProAir	f/v 02						
D-ICBA	Ce525A	ProAir							
G-GDFC	B737-8K2	Jet 2	03 EXS031E/032E						
G-SHUI	Ce680A	Air Charter Scotland	dep EDC002R						
G-STWB	BAe125-750	Sovereign	f/v RHK22A/B						
LY-MGC	B737-4Y0	GetJet Airlines	FOO113P/6295						
LY-OWL	A320-232	GetJet Airlines	dep TFL951P						
N711VT	G280	Aerohead Aviation	dep						
OE-FZC	Ce510	GlobeAir	dep GAC565E						
OE-FZC	Ce510	GlobeAir	02 GAC565F/368X						
OE-GTE	Ce560XLS+	Porsche Air Service	dep						
OO-ACC	Ce525A	Air Service Liège	02						
OO-SRO	B737-86N	TUI Belgium	dep TFL573						
OO-JAV	B737-8K5	TUI Belgium	TFL166/221/2/181						
OO-JAV	B737-8K5	TUI Belgium	02 TFL812/595						
OO-XLS	Ce560XLS+	Air Service Liège	dep						
OO-XLS	Ce560XLS+	Air Service Liège	08						
OY-GFS	Falcon 2000LX	Air Alsie	MMD4610						
OY-JSW	Ce525A	FlexFlight	03 FXT401						
SE-DZA	ERJ145EP	Amelia International	f/v AFR1336/7						
SE-DZA	ERJ145EP	Amelia Int'l	02 AFR1436/388V						
SE-RIL	Ce560XLS	Svenskt Industriflyg	dep JET7						
SP-CHE	HA-420	Jet Story	dep JDI42H						
TC-REC	G450	REC Aviation	04						
02.4X-EDK	B787-9	EI AI	ELY337/8						
C-GJDU	CL-350	Execaire	f/v						
D-AAAX	CL-604	Air Independence							
D-AGBI	Falcon 7X	Volkswagen	06 WGT9Y						
D-CEFE	Ce525C	Eisele Flugdienst	EFD4E						
D-ISAR	Raytheon 390	Euroflug Frenzel							
EC-MFS	B737-4Y0	Alba Star	TRA076/6873/4/075						
F-HFCN	ERJ145MP	Valljet	VLJ49AN						
G-HCSA	Ce525A	Bookajet	dep BOO105						
G-HCSA	Ce525A	Bookajet	09 BOO105/6						
G-THFC	ERJ135BJ	Luxaviation UK	03 LNX34TC						
HB-IGV	Falcon 50EX	VF International	17						
I-DBLR	CL-650	Sirio	f/v SIO879						
LX-VMF	Ce560XL	Luxaviation	dep LXA15P						
M-DMBP	Lj40	Ven Air	03						
M-SAMA	Global 6000	ExecuJet Middle East	04						
N158PH	CL-350	Parker Hannifin	dep						
N588AT	G-V	Journey Aviation	f/v 03						
		OK-CTP							
		OE-FGC							
		OO-JAV							
		OO-SRO							
		OO-SRO							
		OY-GFS							
		OY-RCJ							
		OY-RCJ							
		PH-EBR							
		T7-CJK							
03.9H-ALL	Ce525A								
9H-VCE	CL-350								
9H-VJM	Global 6000								
D-BOOC	Ce750								
D-COZY	EMB505								
D-IAAW	EMB500								
D-IBCG	Ce525A								
D-ISAR	Raytheon 390								
EC-MVC	CRJ1000								
F-HTVB	B737-8K2								
G-RANE	CL-605								
LX-VMF	Ce560XL								
N1AL	G650ER								
N66D	Ce510								
N421SZ	Global 6000								
N515TJ	Beech 400A								
N561SK	G550								
N635E	G450								
N839BA	B737-77Z								
OE-FOE	Ce510								
OK-HAR	Ce560XL								
OO-DFG	Falcon 2000LX								
OO-SRO	B737-86N								
PH-EBR	Falcon 900								
SP-ENO	B737-8AS								
SP-OSA	Ce680								
TC-LER	A310-308F								
04.4X-ECC	B777-258ER								
D-AGBA	Falcon 8X								
D-CDAS	EMB505								
D-CHZF	Ce550								
N200CH	Falcon 2000LX								
N250AF	G450								
OE-FOE	Ce510								
OO-SRO	B737-86N								
OO-SRO	B737-86N								
PH-FHB	PA-46-500TP								
SE-RIL	Ce560XLS								
05.D-CFHZ	EMB505								
D-IMPO	Beech C90A								
F-HFCN	ERJ145MP								
LX-WJA	HA-420								
LY-PGC	B737-4S3								
N129NS	G-IVSP								
OO-SRO	B737-86N								
06.9A-JSC	Ce525A								
		NetFlight	NTF470						
		ABC Bedarfsflug	FTY6						
		TUI Belgium	TFL596/093						
		TUI Belgium	TFL574/163P						
		TUI Belgium	03 TFL164/567						
		Air Alsie	03 MMD4610						
		Atlantic Airways	TRA078/5359						
		Atlantic Airways	03 TRA5360/077						
		Exxaero	dep XRO594						
		TAG Aviation San Marino	dep						
		Luxwing	LWG102/191						
		VistaJet Malta	04 VJT474						
		VistaJet Malta	04 VJT850						
		AirX Charter (Germany)	AXG310/1						
		Luxaviation Germany	f/v 04 LXG30Y						
		Arcus Air	04 AZE61BI/62BI						
		ProAir							
		Euroflug Frenzel	04						
		Air Nostrum	f/v ANE2170/3170						
		Transavia France	arr TRA052						
		Saxonair	SXN65C						
		Luxaviation	LXA15P						
		Air Lease	04						
		Heiko Gerhard Sauer	f/v						
		Eagle Aircraft	f/v 04						
		Blackburn Int'l	20						
		Executive Jet Mgmt	f/v EJM561						
		PLA Aircraft Corp	dep						
		Boeing	04 RDN943						
		GlobeAir	04 GAC328Y/217Z						
		Aero Partner	04 DFC500M/344M						
		Luxaviation Belgium	AAB154						
		TUI Belgium	TFL682/265/6/911						
		Exxaero	11 XRO594/628						
		Enter Air	ENT539						
		Jet Story	JDI91Z						
		ULS Cargo	THY6309/10						
		EI AI	ELY337/8						
		Volkswagen	WGT1A						
		DAS Private Jets	05						
		Tyrol Air Ambulance	TYW211F/212F						
		Cardinal Health	dep						
		Twizel Business	dep						
		GlobeAir	05 GAC217B/898B						
		TUI Belgium	TFL912/219P						
		TUI Belgium	05 TFL220/643						
		Faber Halbertsma	05						
		Svenskt Industriflyg	JET7						
		DAS Private Jets	07						
		Valljet	07 VLJ49AN/42AN						
		Flying Group Lux.	06 FYL82JA/83JA						
		GetJet Airlines	TRA078/5359						
		Global Air Charters	07 GJE1209						
		TUI Belgium	06 TFL644/JAF310F						
		Jung Sky	07 JSY069C						

9H-JAD	CL-850	Air X Charter	07	AXY609/703	D-CXLS	Ce560XLS+	Air Hamburg	11	AHO366X/490P
A6-BNC	B787-9	Etihad Airways		f/v ETD77/8	D-IHKW	Ce525	ProAir		
LX-JFZ	PC-12/47E	Jetfly Aviation	07	JFA02A/56M	D-ITRA	Ce525	Transavia Flug		
LY-PGC	B737-4S3	GetJet Airlines		TRA5360/6117	LX-JFH	PC-12/45	Jetfly Aviation		JFA65E/83E
OE-FOG	Ce510	GlobeAir	07	GAC825D/714E	LX-ONE	Lj45	Lux. Air Ambulance	11	LRQ721/3
OO-JLO	B737-8K5	TUI Belgium		TFL202/245	LZ-DEO	MD-82	ALK Airlines		LZB461/2
OO-JLO	B737-8K5	TUI Belgium	07	TFL246/263	M-OCOM	CL-604	Shino Aviation		11
OO-MMT	Ce560XLS	Air Service Liège		11	N72PS	Falcon 900LX	Watsco Holdings		f/v 13
OY-RUU	A321-231	Danish Air Transport (a/w)		IBK3540/1	N85PX	CL-604	SPX Flow		f/v 11
07.MM62246	P180	Raggruppamento		f/v 09 'CC-112'	N359ST	PC-12/47E	TVPX ARS		11
4X-ECD	B777-258ER	EI AI		ELY337/8	N533GV	G550	Netflix		11
D-AIRV	ERJ135BJ	Air Hamburg	f/v 09	AHO678H/610K	N929WC	G200	Fort Calumet		13
F-HGIM	Ce680A	Airailles		f/v 08	OE-FZC	Ce510	GlobeAir		GAC542V/069T
HL8217	B777-3B5ER	Korean Air		f/v KAL925/6	OO-JLO	B737-8K5	TUI Belgium	11	TFL966/715
LX-JFH	PC-12/45	Jetfly Aviation		JFA54E/03A	PH-HXG	B737-8K2	Transavia (GOL c/s)	dep	TRA051
LY-PGC	B737-4S3	GetJet Airlines		TRA6118/077	RA-09006	Falcon 900EX	Gazpromavia	11	GZP9615/6
N1FE	Global 6000	FedEx Express		10	VP-CJJ	G650ER	JABJ (HK)		f/v
N264C	Falcon 900LX	Int'l Aviation Holdings		20	11.4X-ECB	B777-258ER	EI AI		ELY337/8
N910RW	TBM-910	Redwood		08	9H-VCE	CL-350	VistaJet Malta		VJT474
OE-FOG	Ce510	GlobeAir	10	GAC714F/141X	C-FJJJ	CL-601-3A	Aviation Fox		12
OE-FTP	EMB500	Mustang Charter			CS-TKT	B767-36NER	Euro Atlantic (a/w)		TFL090P/505
OO-CLA	Ce525C	Abelag Aviation		AAB286	D-BUBI	CL-300	Windrose Air		QGA481B/482B
OO-JLO	B737-8K5	TUI Belgium	08	TFL264/647	D-CSCA	Ce525B	Silver Cloud Air	13	2x SCR378
VP-CPG	G650	Hong Kong Jet		f/v 08	G-ZENJ	Lj75	Zenith Aviation		BZE01A/B
08.A6-BLZ	B787-9	Etihad Airways		f/v ETD77/8	G-ZNTH	Lj75	Zenith Aviation		f/v BZE07A/B
D-CDOC	Lj45	Jetcall		09 JCL2	LX-VMF	Ce560XL	Luxaviation		12 LXA15P
EC-NCY	B787-9	Air Europa		f/v AEA1091/8	OE-FWF	Ce510	GlobeAir	12	GAC233E/922L
G-FOMO	Global 6000	Luxaviation UK		f/v 09	OE-GTS	Ce560XLS+	Porsche Air Service		13
G-KRBN	EMB505	Saxonair		SXN30P	OO-JLO	B737-8K5	TUI Belgium	12	TFL204/643
G-SHUI	Ce680A	Air Charter Scotland		EDC003R	OO-MMT	Ce560XLS	Air Service Liège		13
LX-VMF	Ce560XL	Luxaviation		11 LXA15P	PH-KFA	DA-42NG	KLM Flight Academy	f/v 13	KLM7912
LZ-MDK	A320-232	Fly2Sky (a/w)		TVF2010/1	12.9H-JAD	CL-850	Air X Charter	13	AXY113/1305
N77FK	G-IVSP	Econet Wireless			9H-VJZ	Global 6000	VistaJet Malta		13 VJT981
N351JL	CL-350	Link Snacks		09	A6-EVH	A380-842	Emirates		f/v UAE149/50
OO-JLO	B737-8K5	TUI Belgium		TFL648/223	A7-BFS	B777-FDZ	Qatar Cargo		f/v QTR8203/4
SP-LUA	B737-79P	LOT (Blue Air c/s)		f/v LOT265/6	EC-LRM	A320-232	Gowair (a/w)	13	TFL090P/543
09.D-CFLY	Ce560XLS+	Air Hamburg	10	AHO436B/477J	EI-GEF	CRJ900LR	Scandinavian		f/v SAS547/8
D-ITRA	Ce525	Transavia Flug			LX-JFH	PC-12/47	Jetfly Aviation		JFA61K/74D
G-HCSA	Ce525A	Bookajet	17	BOO106/101	LY-KDT	B737-522	KlasJet		f/v KLJ7005/6
G-JSSE	Falcon 900B	Xclusive Jets	10	XJC899	M-AVIR	Global 6000	TAG Aviation (UK)		16
G-WZAP	EMB505	Saxonair		f/v SXN35Z	N900KS	G650ER	Exec Jet Management	13	EJM650
LX-EAA	Lj45	Lux. Air Ambulance		LRQ717	N1008	Ce501	Maharishi Foundation		
LX-JFH	PC-12/45	Jetfly Aviation	10	JFA45W/64F	OE-FTP	EMB500	Mustang Charter		
M-IRTH	PC-12/47E	Wingnet		f/v 10	OE-GUN	Ce560XL	Sazlburg Jet Aviation		MOZ561
N248LX	Falcon 900LX	Clif Bar & Co.		TWY28	OK-SIL	Beech C90B	Petr Mara		f/v 13
N359ST	PC-12/47E	TVPX ARS			OO-JEF	B737-8K5	TUI Belgium		arr TFL097P
N535GV	G550	NetFlix		11	OO-JLO	B737-8K5	TUI Belgium		TFL644/JAF098P
N589K	G550	Swagelok		10	OO-XLS	Ce560XLS+	Air Service Liège		13
OE-FAT	Ce510	GlobeAir		GAC272Z/189Q	SP-IAF	EMB500	Jet Story		
OE-FWF	Ce510	GlobeAir	10	GAC344C/233D	TC-MJB	CL-604	MNG Jet		13
OK-MYS	Ce510	Air Prague		PRG836M	XA-GEN	ERJ135BJ	Taxi Aereo del Norte		16
OO-JLO	B737-8K5	TUI Belgium		TFL224/725	13.V-11	G-IV	334sq		NAF11
OO-JLO	B737-8K5	TUI Belgium	10	TFL726/965	D-CCVD	Ce560XLS	Atlas Air Service		14 ATL1D
SP-OSA	Ce680	Jet Story		JDI91Z	EC-NFJ	A320-271N	Vueling		f/v VLG8366/7
10.T.18-4/45-04	Falcon 900B	451 Esc		AME4538	G-ZENJ	Lj75	Zenith Aviation		BZE01A/B
9H-VCE	CL-350	VistaJet Malta		11 VJT474	G-ZNTH	Lj75	Zenith Aviation		BZE07A/B



Transavia will be leasing a fair amount of Boeing 737s to GOL this winter. In November some more will venture to Brasil. PH-HSW was the second aircraft to be ferried to South America. (Amsterdam - Schiphol, 24 October 2019, Ad Jan Altevogt)



Royal Air Maroc took delivery of Boeing 787 CN-RGZ in new colours in May 2019. (Amsterdam - Schiphol, 18 October 2019, Maarten Visser Sr)

LX-JFQ	PC-12/47	Jetfly Aviation	15 JFA75D/48E	9H-VJW	Global 6000	VistaJet Malta	18 VJT968
M-IFFY	Ce510	Xead Aviation	15	9H-WFC	ERJ135BJ	Air X Charter	18 AXY1702/1804
N1SN	G-IVSP	Sky Night	f/v 15	D-AIWK	A320-214	Lufthansa	f/v DLH992/3
N129NS	G-IVSP	Global Air Charters	14 GJE1209	D-AVBA	Global 6000	ProAir Aviation	f/v PAV500
N178HT	Global 6000	Haitian Plastics Machinery Grp	f/v 15	D-CROG	EMB505	Air Hamburg	AHO233Q/006M
OE-FUX	Ce525A	Bairline		D-ITOR	Ce525A	Hormann	
OM-IEX	B737-8BK	Smartwings	f/v TRA072/5671	D-IVVB	Ce525A	Atlas Air Service	ATL5B
OM-IEX	B737-8BK	Smartwings	14 TRA5672/071	EJ-CORE	ERJ135BJ	Gain Jet Ireland	GJI65R
OO-MMT	Ce560XLS	Air Service Liège	14	G-CKWB	B787-9	Norwegian	f/v NAX7700/1
OO-XLS	Ce560XLS+	Air Service Liège	19	G-ESNA	EMB550	Air Charter Scotland	f/v EDC915
PH-EBR	Falcon 900	Exxaero	24 XRO628/630	G-HCSA	Ce525A	Bookajet	18 BOO101/103
14.9H-ILV	CL-850	VistaJet Malta	VJT624	N39NP	Falcon 900EX	Blue Ridge Air	f/v 27
D-BERT	Falcon 2000LX	Bertelsmann	BFD65H/T 2x	N510MD	Ce510	Michel Delauzun	18
D-CCVD	Ce560XLS	Atlas Air Service	15 ATL1D	OE-FCO	Ce510	GlobeAir	GAC727A/616B
D-CDCM	Ce560XLS+	Air Hamburg	15 AHO329S	OE-FCO	Ce510	GlobeAir	18 GAC068V/846Y
G-OCAK	Global XRS	Gama Aviation	15 GMA480	OE-FMT	EMB500	Jet 24	
G-SIRS	Ce560XL	Luxaviation UK	LNx86RS	OE-FRM	Ce510	GlobeAir	GAC846X/708F
G-UZLF	A320-251N	easyJet	f/v EZY2163/4	OK-KUK	Ce510	Aero Partner	18 DFC261M
LX-JFB	PC-12/47E	Jetfly Aviation	JFA50G/28L	PH-BKC	B787-10	KLM	f/v del KLM9878
LX-JFU	PC-12/47E	Jetfly Aviation	15 JFA88A/15Z	SE-RFL	Ce680	EFS	18 EUW9381/9340
LY-KDT	B737-522	KlasJet	KLJ7007/8	SE-RMB	Ce525B	Svenskt Industriflyg	dep
M-EVAN	CL-300	Marcus Evans	17	SE-RMB	Ce525B	Svenskt Industriflyg	19 2x
N359ST	PC-12/47E	TVPX ARS		TC-KHG	G550	Korvez	19
N575AG	CL-604	The Abbey Group	f/v 19 GTH75	18.4X-ECB	B777-258ER	EI AI	ELY337/8
OE-FHK	Ce510	GlobeAir	15 GAC455Z/258Q	9H-CLG	CL-850	Air X Charter	AXY1802/3
OH-SSS	PC-12/47E	Hendell Aviation	f/v 15	A6-EVC	A380-842	Emirates	f/v UAE149/50
OO-PCJ	PC-12/47E	European Aircraft Private Club		CN-RGZ	B787-9	Royal Air Maroc	f/v RAM850/1
S5-TSV	Falcon 50EX	Elit'avia	dep	D-AGBE	Falcon 7X	Volkswagen	21 WGT5E
VP-BNW	BAe125-850XP	Polet Aviakompania	CIG1671/2	D-IJOA	Ce525A	Excellent Air	ECA81L
15.V-11	G-IV	334sq	NAF11	G-LXWD	Ce560XLS	Catreus	VCG2WD/3WD
4X-ECC	B777-258ER	EI AI	ELY337/8	G-TGPG	B737-3Y0	T2 Aviation	BRO50/P
9H-WFC	ERJ135BJ	Air X Charter	16 AXY1505/1603	LX-WJD	HA-420	Flying Group Lux.	FYL82JD/71JD
D-IGWT	Ce525A	Sylt Air	AWU715G	M-AVIR	Global 6000	TAG Aviation (UK)	20
G-IPAX	Ce560XL	Air Charter Scotland	EDC018	M-IFFY	Ce510	Xead Aviation	
LX-WJB	HA-420	Flying Group Lux.	16 FYL32JB/42JB	N887TM	G550	Airflite	arr
M-OVIE	G650	Hampshire Aviation	16 2x	N900FH	TBM-900	HTG Trading	2x
N148QS	Global 6000	NetJets	16	OK-JNT	ERJ135BJ	ABS Jets	f/v 19 ABP751/2
OE-FAF	Ce525A	Smartline		OK-RAH	Beech 400A	Time Air	19 TIE769H/782H
OE-FDT	Ce510	GlobeAir	GAC677X/455B	OO-JWB	PC-12/47E	Nextgen Partners	
T7-DGS	Falcon 900LX	Prince Aviation	f/v 17 PNC151/171	SE-RRG	B737-8JP	Norwegian	f/v NAX4531/2
16.2-ZEUZ	Beech C90A	Zeusch Aviation	17	SP-TAT	Beech 400A	Smart Jet	SAH26P
4X-ECA	B777-258ER	EI AI	ELY337/8	19.A7-BFR	B777-FDZ	Qatar Cargo	f/v QTR8203/4
D-ISAR	Raytheon 390	Euroflug Frenzel		CS-TFR	Lj45	Omni Air	20 OAV304
EC-KOL	Ce560XL	Gestair	17 GES121L	D-BEEP	Ce750	Air X Executive	20 AXG1903/2004
I-MOFI	Falcon 2000LX	Sirio	20 SIO618	EC-HDS	B757-256	Privilege Style (n/t)	ICE506/7
M-AJOR	AW139	Major Aviation		EC-KXN	B747-4H6	Wamos	TFL093P/347
M-AVIR	Global 6000	TAG Aviation (UK)	17	G-IPLY	Ce550	Xclusive Jets	f/v XJC3
N29DE	Cirrus SF50	Deny Airlines	dep	G-LXWD	Ce560XLS	Catreus	20 VCG3WD/1WD
N29DE	Cirrus SF50	Deny Airlines	18	G-ZZOT	PA-34-220T	Cheshire Aircraft Leasing	f/v 20
N534QS	G550	NetJets		OE-FRM	Ce510	GlobeAir	20 GAC708G/172K
N612JD	Ce680	OTD Aviation	f/v 18	OH-JRJ	PC-12/47E	Hendell Aviation	
N700MK	G650ER	Kumagai Masatoshi Office	f/v 19	OK-JFA	Beech 400XT	Time Air	TIE769J
N732PA	CL-605	Mirage Aviation	f/v 17	OO-XLS	Ce560XLS+	Air Service Liège	21
OE-FHA	Ce510	GlobeAir	17 GAC791B/770H	SE-RMR	Ce560XLS	Bluelink Jets	21 BLJ52U/W
PH-NNX	Ce750	ASL	f/v 17	20.9H-CLG	CL-850	Air X Charter	AXY2005/1
VP-BGV	ERJ135BJ	Sirius Aero	f/v CIG1831/2	9H-ILV	CL-850	VistaJet Malta	VJT624
YU-FNR	Ce525	Eagle Express	20 EES300	D-AIED	A321-271NX	Lufthansa	f/v 21 DLH1002/3
17.2-ZEUZ	Beech C90A	Zeusch Aviation	arr	D-IGWT	Ce525A	Sylt Air	AWU720G

ES-SAP	A320-232	Smartlynx Estonia (a/w)	EJU2729/30	F-HMBG	Ce525A	Speedfly	24
G-HCSA	Ce525A	Bookajet	21 BOO103	OE-FZE	Ce510	GlobeAir	GAC770J/327V
LN-LOL	Ce208B	Terratec	f/v 27 LED7	OK-JRS	Ce680	Smartwings	24 TVS27J/28J
LX-JFU	PC-12/47E	Jetfly Aviation	21 JFA89L/90L	OM-FWW	Raytheon 390	Tatra Jet	25 ELJ601
M-NTOS	Ce525C	Selementos		OO-CFW	PC-12/47E	NextGen Partners	
M-SPEC	Beech 350	Specsavers Aviation	SSZ9A/B	SE-RIL	Ce560XLS	Svenskt Industriflyg	25 JET7
N805TM	G650ER	Toyota Motor Sales USA	dep	SP-LWE	B737-8Q8	LOT	f/v LOT267/8
N900LY	G-V	Lyon Aviation	21	TC-SZA	Falcon X	Swan Aviation	
OE-FMT	EMB500	Jet 24		VP-BVG	Global XRS	MVA Aviation	25
OE-FOE	Ce510	GlobeAir	GAC839Q/728R	24.9H-GIO	Ce525	Luxwing	25 LWG1102/1
OE-FRM	Ce510	GlobeAir	22 GAC172L/128M	D-AGBA	Falcon 8X	Volkswagen	WGT1A
OK-JNT	ERJ135BJ	ABS Jets	ABP751/2	D-CSCE	EMB505	Luxaviation Germany	25 LXG55CE
SE-RRF	B737-8JP	Norwegian	f/v NAX4529/30	D-IBJJ	Ce525A	Air Hamburg	AHO169N
YU-PZM	Ce560XLS+	Air Pink		D-ISGS	AP68TP-600	Svege Flugdienstleistungen	25
21.9H-OWL	CL-605	Comlux Aviation Malta	MLM101	F-HTVO	B737-8GJ	Transavia France	f/v TVF4010/1
C-FEMC	Lj40	Fox Flight		OE-GKW	G100	Tyrol Air Ambulance	TYW758/9
D-CAGA	EMB505	Luxaviation Germany	LXG55GA	PH-HSW	B737-8K2	Transavia (GOL c/s)	dep TRA051
D-CCVD	Ce560XLS	Atlas Air Service	22 ATL1D	TC-LLE	B787-9	Turkish Airlines	f/v THY1953/4
D-CTOR	EMB505	Luxaviation Germany	22 LXG55OR	YU-MPC	Ce525	MPC Holding	25
D-IBCG	Ce525A	ProAir	22	YL-LCZ	A321-211	Smartlynx (n/t)	f/v 25 TFL236/091P
EC-KXN	B747-4H6	Wamos	TFL348/092P	25.4X-EDC	B787-9	EI AI	ELY337/8
EC-MLA	Falcon 2000S	Gestair	f/v 021A	A7-BFE	B777-FDZ	Qatar Airways	div QTR8913
G-HCSA	Ce525A	Bookajet	25 BOO1015	D-BUZZ	Ce750	Air X Charter Germany	AXG2519/20
G-RNJP	CL-605	TAG Aviation (UK)		D-CCCA	Lj35A	Jet Executive	JEI252
G-TGPG	B737-3Y0	T2 Aviation	BRO50P/50	HB-JXQ	A320-214	easyJet Switzerland	f/v EZS1359/60
N711T	Falcon 900EX	Grey Falcon Management	f/v 24	HB-JXR	A320-214	easyJet Switzerland	f/v EZS1043/4
N939GS	Global 5000	TAG Aviation Asia	22 TBJ81	I-CNDG	Ce560XLS+	Sardinian Sky Service	SSR256
OE-FAT	Ce510	GlobeAir	GAC622Q/R	M-BHBH	G650	Aerofinance	27
OK-JRS	Ce680	Smartwings	22 TVS80J/24J	OE-FDT	Ce510	GlobeAir	26 GAC327W/749A
22.4X-ECD	B777-258ER	EI AI	ELY337/8	OE-FKF	Ce525A	Fly Tyrol	FTY9
D-ABKI	B737-86J	TUIfly	f/v TUI8964	OK-RLV	G280	Avcon Jet	
D-CTOR	EMB505	Luxaviation Germany	LXG55OR	OO-NEY	EMB545	Air Service Liège	26
D-ISGS	AP68TP-600	Svege Flugdienstleistungen	23 2x	PH-EBR	Falcon 900	Exxaero	arr XRO630
ES-SAK	A320-214	Smartlynx Estonia (a/w)	EJU2723/4	PH-TFA	B737-8K5	TUI Netherlands	dep TFL57F
F-HADV	PA-46-500TP	Vignobles en Vol	23	T7-BSG	Ce525	AMC Aviation	f/v 27
F-HTVC	B737-8K2	Transavia	f/v arr TRA052	YR-TRC	CL-300	Toyo Aviation	26 TOY249A/B
G-ZAPX	B757-256	Titan Airways	23 AWC461/2	26.9H-AMY	CL-850	Air X Charter	AXY2602/2621
G-ZNTH	Lj75	Zenith Aviation	24 BZE07A	CN-RGU	B787-8	Royal Air Maroc	RAM850/1
I-CNDG	Ce560XLS+	Sardinian Sky Service	23 SSR256	D-AIRV	ERJ135BJ	Air Hamburg	27 AHO672W/797L
LX-PCA	PC-24	Jetfly Aviation	JFA42G/41H	EI-GHJ	ERJ190AR	Stobart Air (a/w)	dep STK939
LZ-MDK	A320-232	Fly2Sky (a/w)	TVF4010/1	EI-GHK	ERJ190AR	Stobart Air (a/w)	dep KLM9963
N29DE	Cirrus SF50	Deny Airlines	arr	G-HCSA	Ce525A	Bookajet	arr BOO1015
OE-FRM	Ce510	GlobeAir	27 GAC128N/326F	M-AVIR	Global 6000	TAG Aviation (UK)	31
SE-RFH	Ce680	EFS	EUW9398	OE-GGO	EMB505	M Jet	27 2x MJF279
SE-RIL	Ce560XLS	Svenskt Industriflyg	23 JET7	OE-LVS	A320-216	LEVEL	f/v 27 FOO6824/8404
UK32022	A320-251N	Uzbekistan Airw.	f/v 24 UZB3565/6	SE-RMB	Ce525B	Svenskt Industriflyg	31
VP-CNY	Global XRS	ExecuJet Europe	23	27.B-1168	B787-9	China Southern	f/v CSN307/8
23.4X-ECA	B777-258ER	EI AI	ELY337/8	D-FEND	PC-12/47E	Miklan	f/v
9H-VCB	CL-350	VistaJet Malta	VJT453	D-IGWT	Ce525A	Sylt Air	28 AWU727G/728G
9H-VCN	CL-350	VistaJet Malta	VJT437	OE-HRS	CL-350	Avcon Jet	28 AOJ78R
9H-WFC	ERJ135BJ	Air X Charter	AXY2301/1809	OO-XLS	Ce560XLS+	Air Service Liège	
CS-TFO	Lj40	Omni	24 OAV303	PH-TFF	B737-86N	TUI Netherlands	dep TFL055F
D-AOLG	Fokker 100	Avanti Air	24 ATV801G/802G	SE-RRH	B737-8JP	Norwegian	f/v NAX4257/8
D-AZUR	ERJ135BJ	Air Hamburg	AHO710E	SU-GDV	A330-343E	Egypt Air	f/v MSR757/8
D-ISGS	AP68TP-600	Svege Flugdienstleistungen	24	28.9H-ALL	Ce525A	Luxwing	LWG102/3
ES-SAK	A320-214	Smartlynx Estonia (a/w)	EJU2729/30	9H-PGS	A340-642X	Maleth-Aero (a/w)	SLM3003/0993



Delta Air Lines currently operates a fleet of thirteen Airbus A350 aircraft. Twelve aircraft are still on order. N510DN was delivered to Delta in May 2018. The airline recently announced to take over an additional number of A350 aircraft from partner LATAM. (Amsterdam - Schiphol, 29 October 2019, Ad Jan Altevoigt)



The Bell 230 is an improved development of the Bell 222, a type mostly known for its part in the 'Airwolf' TV series. Kees Hartevelde captured N449B on 26 October 2019 just after lift off from Rotterdam - The Hague airport.

B-20C6	B787-9	China Southern	f/v CSN307/8	D-CQQQ	Ce560XLS+	DC Aviation	arr DCS709
D-AGBA	Falcon 8X	Volkswagen	29 WGT1A	EC-MTY	A330-223	Envelop Airlines f/v 01	SLM3006/0993
D-BERT	Falcon 2000LX	Bertelsmann	BFD65H/T 2x	LX-WEB	Ce525B	Jetfly Aviation	arr JFA42L
D-CEIS	Ce680	Eisele Flugdienst	EFD6S	N188J	Global 5000	Exec Jet Management	EJM188
D-CGEP	G150	Windrose Air	QGA698P	N910RW	TBM-910	Redwood	arr
D-COBI	Ce560XLS	HTM Jet Service	29 HTM019	PH-HXF	B737-8K2	Transavia (GOL c/s)	dep TRA051
D-IPVD	Ce525A	Prominent Gruppe		SE-RMB	Ce525B	Svenskt Industriflyg	arr
N5MV	Falcon 900EX	Bloomberg Services		SE-RRO	B737-8JP	Norwegian	f/v NAX1258/9
OE-FWF	Ce510	GlobeAir	29 GAC059K/059L	YU-PZM	Ce560XLS+	Air Pink	arr
OK-XLS	Ce560XLS+	Silesia Air	30 SUA782/701				
29.B-1297	B787-9	China Southern	f/v CSN307/8				
C-FDBD	B737-8Q8	Sunwing	dep TFL7393				
C-FTDW	B737-808	Sunwing	dep TFL095				
D-CVAA	PC-24	Volkswagen	f/v WGT3C				
D-IAAD	EMB500	Arcus Air	30 AZE79QJ/71QJ				
M-DMBP	Lj40	Ven Air					
M-SETT	Global 5000	Lodging 2020	31				
N605BS	CL-605	Boston Scientific Corporation	f/v 30				
OE-IRF	B737-7JU	ART Aviation	f/v OES469G/470G				
30.9H-PGS	A340-642X	Maleth-Aero (a/w)	31 SLM994/3				
9H-VCJ	CL-350	VistaJet Malta	VJT492				
B-1243	B787-9	China Southern	f/v CSN307/8				
D-AHOS	ERJ135BJ	Air Hamburg	AHO856D				
D-CGBR	Lj55	Jet Executive	JEI131				
D-IAAD	EMB500	Arcus Air	31 AZE72QJ/39QG				
LX-WJA	HA-420	Flying Group Lux.	FYL32JA/21JA				
LZ-MDK	A320-232	Fly2Sky (a/w)	TVF4010/1				
M-VGAL	Falcon 900EX	Charter Air					
N66D	Ce510	Heiko Gerhard Sauer	31				
OE-GHF	Lj40	Avcon Jet	AOJ40T				
PH-OYI	B767-304ER	TUI Netherlands	dep TFL067F				
SP-LWF	B737-86N	LOT	f/v LOT265/6				
VQ-BLO	A320-214	Ural Airlines	f/v SVR743/4				
31.604	A319-112	MH 59. Sz. D. R	f/v HUAF184				
B-1293	B787-9	China Southern	f/v CSN307/8				
B-16718	B777-35EER	EVA Airways	f/v EVA075/6				
D-CFAZ	Lj60	FAI rent-a-jet	arr IFA1557				
D-CFHZ	EMB505	DAS Private Jets					
D-CFLY	Ce560XLS+	Air Hamburg	AHO338N				

A GetJet Airbus leased to TUI departed back home after its lease on the 1st. on that same day a Jet 2 Boeing arrived for maintenance. On the 2nd a Transavia France aircraft arrived for winter lease to Transavia. The first Transavia going on a winter lease to GOL departed in full colours on the 10th. A new fleet addition for KLM arrived on the 17th. The second Transavia France Boeing for winter lease to its Dutch cousin arrived on the 22nd. On the 24th the departure of the second Transavia Boeing 737 for winter lease to GOL. The Smartlynx Airbus on that same day was in basic Thomas Cook colours. A TUI Boeing 737 was ferried to Abu Dhabi for maintenance via a short stop at Brussels on the 25th. Both Stobart Air Embraers operated their final service for KLM on the 26th. The one with the Stobart flight number was ferried to Dublin and is currently being used by Stobart. The one with the KLM flight number was ferried to London Southend for interim storage prior FlyBe operations starting early December 2019. On the 27th a TUI Boeing 737 departed to Shannon for maintenance. Both Sunwing Boeing 737s that had been leased to TUI this summer departed back to Canada on the 29th. A TUI Boeing 767 departed to Taiwan for maintenance on the 30th. Ural Airlines operated their inaugural service to Amsterdam on that same day. The third Transavia Boeing for lease to GOL departed on the 31st. More will follow in November.

Credits: Laurent ten Hoopen (SBS), CH-Aviation, Scramble MB.

## Rotterdam - The Hague

October 2019			
01. CS-GLB	Global 6000	NetJets Europe	NJE3BP/391W
CS-TQU	B737-8K2	euroAtlantic Airways	dep TFL073P
D-AOLH	Fokker 100	Avanti Air	02 TAY599P/ATV701H
D-BEKY	Falcon 2000LX	BASF	
D-CAWU	Ce560XLS	Adolf Würth	
D-CCVD	Ce560XLS	Atlas Air Service	02 ATL1D
D-FWIT	PC-12/47E	Air Alliance	2x
G-EZOA	A320-214	easyJet	02 div EZY1835/9005
G-JSSE	Falcon 900B	Xclusive Jet Charter	dep XJC899
N142JS	Falcon 2000LX	Davinci Jets	dep
N60TE	Global 6000	Cisco Systems	03 EJM812
N610CX	Falcon 900B	Cathexis Holdings	02
N733MA	B737-81Q	Miami Air International	dep BSK592
N988MM	Ce525A	Nordic Aviation Contractor	2x
OE-FDT	Ce510	GlobeAir	GAC855E/744F
OE-ICK	A320-214	easyJet Europe	02 div EJU3332/9043
OO-ACO	Ce510	Air Service Liège	dep
OO-ACO	Ce510	Air Service Liège	03
PH-BXM	B737-8K2	KLM	div KLM1996
PH-GOV	B737-700	Gov'tment of the Netherlands	KLM9926
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-VBG	Falcon 2000EX	JetNetherlands	03
02. MM62275PS-B16	P180	1° RV Pratica	03 IBS275
9H-SOL	A340-313X	Hi Fly Malta (a/w)	04 HFY631/41
D-BOOC	Ce750	AirX Charter (Germ.)	03 AXG219/310
D-CAWU	Ce560XLS	Adolf Würth	
G-JOTR	BAe146-RJ85	JOTA Aviation	03 ENZ695/6
G-JOTS	BAe146-RJ100	JOTA Aviation	03 ENZ693
TC-RSB	Lj45XR	Red Star	03
03. V-11	G-IV	334sq	NAF11
2-KYCM	G650ER	Business Aviation Services Guernsey	
CS-EJA	Ce560XLS	EJME (Portugal)	JME387Y
D-AOLH	Fokker 100	Avanti Air	ATV702H/003H
D-CAAA	Ce560XLS+	DC Aviation	DCS701
EC-MPN	Ce525	Air Taxi & Charter Int'l	dep IBJ813A
HB-IGO	Falcon 2000LXS	CAT Aviation	f/v CAZ401/2
LX-VMF	Ce560XL	Luxaviation	LXA15P
N737AT	B737-7HJ	Hillwood Airways	11 HWA273
OE-FOE	Ce510	GlobeAir	GAC609JH/173M
OO-CEJ	Ce525	Air Service Liège	06 2x
OO-MMT	Ce560XLS	Air Service Liège	dep
OO-VMF	Ce560XLS+	Air Service Liège	
OY-GFS	Falcon 2000LXS	Air Alsie	MMD4610/1
SP-DOM	Lj60XR	AMC Aviation	AMQ5M
SP-OSA	Ce680	Jet Story	JD191Z
04. CS-DUB	BAe125-750	NetJets Europe	NJE643E/4AL
CS-DXR	Ce560XLS	NetJets Europe	NJE983E/4VN
F-HSBL	EMB500	Pan Européenne A/S	05 PEA501
G-OEWD	Raytheon 390	Avidus Aircraft Management	06
HB-JSU	Falcon 900DX	IFIMI	IJM612
OY-GFS	Falcon 2000LXS	Air Alsie	MMD4611

PH-HRK	P180	JetNetherlands	dep
PH-VBG	Falcon 2000EX	JetNetherlands	07
05. CS-LTK	Ce680A	NetJets Europe	NJE672Y/189P
D-ASAP	ERJ135BJ	Air Hamburg	06 AHO673Z
D-CJPG	Lj35A	Quick Air	QAJ3421
OE-FCB	Ce510	GlobeAir	06 GAC673T/108S
OE-GWS	Ce560XLS+	Avcon Jet	AOJ29L
OO-PCN	PC-12/47E	European Aircraft Private Club	
YR-FZA	Fokker 100	Carpatair	06 KRP4870
YU-FNR	Ce525	Eagle Express	07 EES300
06. ZE700	BAe146 CC2	32(TR)sq	07 RRF79/KRF79
9H-JLK	Falcon 7X	TAG Aviation Malta	12 TEU11
CS-DLM	Falcon 2000EX	NetJets Europe	NJE2LM/341K
CS-DXU	Ce560XLS	NetJets Europe	07 NJE337E/299A
D-COLO	Ce525C	Jetkontor	JKH32C
F-GLNE	Beech 1900D	Twin Jet	TWJ071P/423A
N666CP	PA-46-310P		07
OO-LET	Beech B200	Air Service Liège	18
PH-HRK	P180	JetNetherlands	13
YR-FZA	Fokker 100	Carpatair	10 KRP2871/4040
07. D-ASAP	ERJ135BJ	Air Hamburg	AHO673Z
D-BUBI	CL-300	Windrose Air	11 QGA480B/1B
D-ICBA	Ce525A	ProAir Aviation	2x
EC-NAR	Ce525A	Air Taxi & Charter Int'l	22 IBJ707C/722A
F-HROI	P180	Oyonnair	
F-HSFJ	Ce680A	Astonjet	ASJ394
OO-TUK	B737-86J	TUI Belgium	TFL196/5
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
08. V-11	G-IV	334sq	NAF11
D-IOHL	Ce525A	Excellent Air	09 ECA3C
PH-VBG	Falcon 2000EX	JetNetherlands	13
09. F-GLNE	Beech 1900D	Twin Jet	10 ITI423B/042P
OO-HCY	R44	Heli & Co	10
PH-DTS	DA42	Wings over Holland	*
10. V-11	G-IV	334sq	NAF11
T.18-1/45-40	Falcon 900B	451 Esc	AME4538
CS-LAM	Global 5000	EJME (Portugal)	11 JME502M
D-FWIT	PC-12/47E	Air Alliance	
D-FWIT	PC-12/47E	Air Alliance	
G-SPRE	Ce550 Bravo	Synergy Aviation	SYG2
LX-LAA	Lj45	Luxemb. Air Rescue	LRQ720
N739MA	B737-8Q8	Miami Air International	CMB537
OE-IGL	Global 6000	Glock Aviation	GCK18
OO-HCY	R44	Heli & Co	
PH-ECE	EC120B	Heli Holland Holding	
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-KFA	DA42NG	KLM Flight Academy	*KLM7902
11. 5N-EXS	CL-604	Arab Wings	
9H-SKI	P180	Kemmunnett	12
CS-DLN	Falcon 2000EX	NetJets Europe	NJE160P/9XC
CS-DUC	BAe125-750	NetJets Europe	NJE3ER/510E
CS-GLF	Global 6000	NetJets Europe	NJE7UM
D-CFAZ	Lj60	FAI Rent-A-Jet	IFA1518/7
N125DE	Eclipse 500	Innovation Transportation	12



This Pilatus P-12 was delivered from Stans to Rotterdam - The Hague airport on 24 October 2019 and André Wadman was at the right spot to catch the aircraft on camera. 9H-WIT is being operated by NextGen Aviation (Malta) and the first aircraft of this company being based at the airport, bringing the total number of based PC-12s to three.

N821AM	Global XRS	Joust Capital	13	G-XJCI	Ce550 Bravo	Xclusive Jet Charter19	XJC949/949P
N900KJ	Falcon 900C	Kendall-Jackson Wine Estates		OE-FAR	DA42	Sierzega	21
OO-JWB	PC-12/47E	NextGen Aviation		OE-FZE	Ce510	GlobeAir	19 GAC455X/963Q
PH-ELP	EC135T2	ANWB - MAA	Tdy 18	OE-GLJ	Lj60XR	Laudamotion Executive	LDX17
PH-TTR	H135	ANWB - MAA	dep	PH-DEZ	Ce501	F.G. Hilgeman	
S5-ICR	Ce560XL	Ikar Aviation		PH-ULP	EC135T2	ANWB - MAA	arr
12.L1-01	Falcon 2000EX	Slovenian Air Force	LSV101	19.D-IXRK	P180	Winair	dep
CS-DXW	Ce560XLS	NetJets Europe	NJE970M/794H	LX-ONE	Lj45	Luxemb. Air Resc.	20 LRQ749J/51A
OO-ACO	Ce510	Air Service Liège	15 2x	N812AM	BAe125-800A	AirMed	
SU-TMJ	B737-82R	FlyEgypt	FEG3030	OE-GLR	Ce680A	Goldeck-Flug	GDK19LR
13.CS-CHB	CL-350	NetJets Europe	NJE790B/006D	PH-ELP	EC135T2	ANWB - MAA	Lifeline1
CS-DXW	Ce560XLS	NetJets Europe	NJE4RG/431M	PH-HGT	Ce680+	JetNetherlands	XRO517
CS-LTA	Ce680A	NetJets Europe	NJE923K/500A	PH-JWL	Falcon 2000LXS	Cartier Europe	
D-COCA	Beech 1900D	Private Wings	PWF242A/B	PH-RLY	Ce402B	Heli Holland Holding	20
D-ISUN	Ce525A	Excellent Air	14 ECA5C	PH-VBG	Falcon 2000EX	JetNetherlands	22
N900KS	G650ER	Executive Jet Management	EJM650	SU-TMK	B737-82R	FlyEgypt	FEG3029/30
OO-JWB	PC-12/47E	NextGen Aviation		20.CS-DXT	Ce560XLS	NetJets Europe	28 NJE490G/540H
OY-MGA	Falcon 2000LXS	Air Alsie	16 MMD6959	D-COCA	Beech 1900D	Private Wings	PWF242C/D
PH-CTH	Falcon 2000LX	Exxaero	14 XRO616/8	D-ITRA	Ce525	Transavia Flug	
S5-ICR	Ce560XL	Ikar Aviation	14	F-HBZA	Ce550	Valljet	VLJ52AZ
14.F-HJFP	PC-12/47E	Get1jet		F-HBZA	Ce550	Valljet	21 VLJ52AZ
HB-JSM	Falcon 7X	Jet Aviation Business Jets	15	HB-LZI	Ce340A	MansAir	23
M-NGSN	PC-12/47	Niels Stolt-Nielson	18	N732PA	CL-605	Mirage Aviation	23
N2673D	Ce340A	Kees Meijer - Meijer Beheer	15 2x	OO-ACO	Ce510	Air Service Liège	
OE-FHA	Ce510	GlobeAir	GAC417B/306C	SE-RFH	Ce680	European Flight Service	EUW9373
15.9H-ILZ	CL-850	VistaJet Malta	17 VJT683	21.V-11	G-IV	334sq	NAF11
CS-DLH	Falcon 2000EX	NetJets Europe	NJE3ND	F-HANN	PC-12/47	FOBYC	
D-FWIT	PC-12/47E	Air Alliance	2x	OE-FHK	Ce510	GlobeAir	22 GAC107N/096P
D-IAIB	Ce525	AIB Assets	16	OO-HCY	R44	Heli & Co	22
D-ISCH	Ce525A	G. Schubert		PH-KFA	DA42NG	KLM Flight Academy	2x *KLM7934
G-THFC	ERJ135BJ	Luxaviation UK	18 LNX30TC/08TC	SP-KNT	PA-46-350P		23
N2673D	Ce340A	Kees Meijer - Meijer Beheer		22.CS-DXM	Ce560XLS	NetJets Europe	NJE038N/772U
OO-ACO	Ce510	Air Service Liège	20	N86MW	G-IVSP	Skystream Jet	
PH-CTH	Falcon 2000LX	Exxaero	16 XRO616	OE-FAT	Ce510	GlobeAir	23 GAC682B/C
PH-HRK	P180	JetNetherlands	24	OE-HIL	CL-350	Avcon Jet	AOJ75L
16.D-CGGG	Lj31A	Jetcall	JCL3	OO-ACO	Ce510	Air Service Liège	25
N585GS	G650ER	Gilead Sciences	TWY585	OO-DFG	Falcon 2000LX	Luxaviation Belgium	
OO-JWB	PC-12/47E	NextGen Aviation	17 2x	OO-HCY	R44	Heli & Co	
OO-PCJ	PC-12/47E	EAPC		OO-VMF	Ce560XLS+	Air Service Liège	
PH-CTH	Falcon 2000LX	Exxaero	XRO600	PH-KFA	DA42NG	KLM Flight Academy	*KLM7902
S5-BSA	Ce550 Bravo	SkyX	17	23.V-11	G-IV	334sq	24 NAF11
17.9H-ILZ	CL-850	VistaJet Malta	VJT683	9H-VCB	CL-350	VistaJet Malta	24 VJT453
D-IPCG	Ce425	PGS Holding		CS-DXM	Ce560XLS	NetJets Europe	NJE460W/940Y
D-ITWL	Ce425	Konstage		M-CCCP	Global 5000	Heda Airlines	24
F-HJCD	Falcon 2000LXS	J.C. Decaux	18	OE-HIL	CL-350	Avcon Jet	AOJ75L
G-ESNA	EMB550	Air Charter Scotland	EDC915	PH-CDH	B737-86J	Corendon Dutch Airl.	CND196/9291
HA-JEO	Ce650	Jet Stream	JSH2AMB/1AMB	PH-CJM	Ce680	ASL	
I-FVAB	Ce525 (M2)	Itaifty	18	PH-MAA	EC135T2+	ANWB - MAA	Lifeline3
LX-ONE	Lj45	Luxemb. Air Rescue	LRQ742B/734D	24.9H-WIT	PC-12/47E	NextGen Aviation (Malta)	del 30
OO-CEJ	Ce525	Air Service Liège	arr	D-FWIT	PC-12/47E	Air Alliance	2x
OO-JWB	PC-12/47E	NextGen Aviation		N652PP	Ce680	Eindhoven	25
PH-DTS	DA42	Wings over Holland		N900FH	TBM-900	HTG Trading	2x
18.9H-JLK	Falcon 7X	TAG Aviation Malta	11 TEU11	OE-FFB	Ce510	GlobeAir	25 GAC096Q/89C
CS-CHG	CL-350	NetJets Europe	NJE2BX/305L	PH-MDG	Ce680+	Exxaero	28 XRO215
CS-PHM	EMB505	NetJets Europe	19 NJE133A/457B	SP-AST	Ce525	AMC Aviation	25 AMQ9T
D-CHIC	EMB505	Air Hamburg	AHO236G	25.9H-VCO	CL-350	VistaJet Malta	27 VJT449
D-GVCC	DA42	Rent-A-Plane		N449B	Bell 230	Fawkes	26



After the demise of Thomas Cook Airlines this Airbus A321 was returned to Avion Express. After a short term lease to Titan LY-VEH was leased to Onur Air at the end of October 2019, still in basic Thomas Cook colours. (Rotterdam - The Hague, 27 October 2019, André Wadman)



Swiss aviation company Zimex has established a cargo subsidiary based in Salzburg. With the Austrian subsidiary, which is chaired by Hans-Jörg Lotter, Zimex can serve EU routes that the AOC of the Swiss parent company would not make possible. The first aircraft ATR42 OE-HZA an has been delivered to the airline's base at Maastricht. The start-up has yet to receive its Air Operator Certificate (AOC). (Maastricht - Aachen, 14 October 2019, Arjen Sleewenhoek)

N91PS	BAe125-800XP	KK Executive	28	9H-VFB	CL-605	VistaJet Malta	01 VJT598
OE-FZD	Ce510	GlobeAir	GAC556N/P	CS-CHE	CL-350	NetJets Europe	01 NJE410M/546C
OO-MMT	Ce560XLS	Air Service Liège		CS-PHA	EMB505	NetJets Europe	NJE8AQ/368F
PH-CDH	B737-86J	Corendon Dutch Airl.	CND9292/113P	G-RCFC	BAe125-900XP	Voluxis	VXS531
PH-CJM	Ce680	ASL	26	I-ARFX	ERJ135BJ	Sirio	03 SIO411
PH-HRK	P180	JetNetherlands	30	OY-APM	G450	Maersk Aviation	01
26.D-CXLS	Ce560XLS+	Air Hamburg	27 AHO357Z/233L	PH-HRK	P180	JetNetherlands	arr
D-HGVB	R44	Rotavisie		PH-VBG	Falcon 2000EX	JetNetherlands	arr
D-ITAN	Ce525	E-Aviation					
N86MW	G-IVSP	Skystream Jet					
OE-FZD	Ce510	GlobeAir	GAC778M/556P				
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1				
SU-TMK	B737-82R	FlyEgypt	FEG3030				
27.CS-CHA	CL-350	NetJets Europe	28 NJE248L/279F				
CS-CHE	CL-350	NetJets Europe	NJE9GP/894C				
CS-DLM	Falcon 2000EX	NetJets Europe	28 NJE834R/158F				
D-ATOP	ERJ135BJ	Air Hamburg	28 AHO632J				
LY-VEH	A321-231	Avion Express	f/v OHY851/2				
N225DL	Falcon 8X	Cresta Holdings	01				
OO-XLS	Ce560XLS+	Air Service Liège	arr				
OY-VIP	Ce550	FlyGAC					
PH-FJK	Ce525B	JetNetherlands					
PH-TXA	Ce510	JetNetherlands	02				
28.L1-01	Falcon 2000EX	Slovenian Air Force	LSV101				
0110	B737-86X	1.BLT	30 PLF101				
CS-LTE	Ce680A	NetJets Europe	29 NJE575E/463E				
CS-PHE	EMB505	NetJets Europe	29 NJE505Q/4EB				
D-CSOS	Lj45	Jetcall	29 JCL1				
D-IKOE	Ce510	Reederei Köpping	29				
EC-MXJ	A320-214	Gowair (a/w)	dep TFL092P				
N508CK	G500	Talon Air	TFF904				
OE-FAT	Ce510	GlobeAir	GAC826M/159J				
OY-VIP	Ce550	FlyGAC					
29.D-FWIT	PC-12/47E	Air Alliance	2x				
D-ICKE	Beech B200GT	Dachser	30				
F-GYGM	DA42	Sodelavia					
N128JL	Falcon 900EX	KCK Bermuda	30				
OY-APM	G450	Maersk Aviation					
PH-MDG	Ce680+	Exxaero	01 XRO215				
UP-A2001	A320-214X	Gov'ment of Kazakhstan	30 BEC002				
30.D-890	CH-47F	298sq	Shadow6				
9H-WIT	PC-12/47E	NextGen Aviation (Malta)	07				
CN-ROD	B737-7B6	Royal Air Maroc	RAM686/5				
CN-ROD	B737-7B6	Royal Air Maroc	RAM684/7				
D-CAUW	Ce560 Encore	Atlas Air Service	ATL2W	01.OE-FMU	Ce525	White Sparrow	October 2019
D-IAWG	Ce425	Aerowest	31	PH-CJM	Ce680	ASL	SOW1
G-CIFE	Beech B200	2 Excel Aviation	BRO30	PH-HZJ	B737-8K2	Transavia Airlines	dep
HB-VTS	Raytheon 390	Lions Air Skymedia		PH-HZJ	B737-8K2	Transavia Airlines	TRA091/8045
LX-TWO	Lj35A	Luxemb. Air Rescue	31 LRQ769J	PH-TXA	Ce510	JetNetherlands	TRA8046/0092
OH-RBX	Ce560XL	River Aviation		02.F-HPUR	BAe125-800XP	Valljet	04
31.2-WKTJ	Beech 350	Diamond Exec. Avn	f/v 01 WKT08	G-SMSM	Falcon 2000LXS	Luxaviation UK	VLJ18AA
							LNx80SM

The month started with some Amsterdam diversions. Also on the 1st the departure of the based Miami Air Boeing 737 back to the USA and the based euroAtlantic Boeing departing back to Portugal. On the 2nd a visit by a Polizia di Stato Piaggio 180. The Hi-Fly Airbus on the 2nd took FC Porto to the Netherlands for their football game against Feyenoord. Both JOTA Aviation aircraft on the same day operated charters from and to Manchester in relation to the football game of Manchester United against AZ Alkmaar. The Miami Air Boeing on the 10th operated a military charter. FlyEgypt operated three flights from and to Hurgada this month with the first taking place on the 12th. The departing German Piaggio on the 19th is former I-FXRK. NextGen Aviation (Malta) decided to base a new Pilatus PC-12 at Rotterdam. The aircraft arrived from Stans on the 24th. The Bell 230 is not a regular type of helicopter. On the 25th one visited for some fuel. The Avion Express Airbus on the 27th had been leased to Thomas Cook Airlines until the airline folded late September 2019. After operating repatriation flights for Titan Airways the Airbus was ferried to Frankfurt via Chateauroux. It started operating for Onur Air in basic Thomas Cook colours on 13 October 2019. The Gowair Airbus that operated flights for TUI Netherlands from Rotterdam departed to Amsterdam on the 28th. Most probably one of this months high lights arrive on the 29th. The Government of Kazakhstan Airbus spend one night at the airport. Royal Air Maroc began its service to Rotterdam on the 30th.

**Credits:** Rotterdam Airport, Airnieuws, Rotterdam The Hague Airport Aviation (Facebook group), Scramble MB.

### Maastricht - Aachen

							October 2019
01.OE-FMU	Ce525	White Sparrow	SOW1				
PH-CJM	Ce680	ASL	dep				
PH-HZJ	B737-8K2	Transavia Airlines	TRA091/8045				
PH-HZJ	B737-8K2	Transavia Airlines	TRA8046/0092				
PH-TXA	Ce510	JetNetherlands	04				
02.F-HPUR	BAe125-800XP	Valljet	VLJ18AA				
G-SMSM	Falcon 2000LXS	Luxaviation UK	LNx80SM				



This Beech 350i was delivered to the French Customs in March 2015. Making an appearance outside France is quite rare for these kind of aircraft but Simen Dorschman was able to photograph F-ZBGQ at Groningen - Eelde airport on 1 October 2019, when it passed through on its way to Scandinavia.

N194ER	Ce510	Blue Sky Aviation	20	CS-LAU	Ce680A	NetJets Europe	NJE7TV
N561SK	G550	Exec. Jet Management	03 EJM561	JY-AGQ	A310-304(F)	Royal Jordanian	RJA033/034
OK-MFT	ATR72-212A	CSA Czech Airlines	18 CSA9200/1	PH-DWA	ERJ145LR	Air Charters Europe	JNL206/028
OO-AMR	Ce525A	Air Service Liège		PH-DWS	ERJ135LR	Air Charters Europe	25 JNL624/004
PH-CJM	Ce680	ASL	04	TC-ACF	B747-481(F)	Saudia	SVA917/8
TC-ACM	B747-428F	Saudia	SVA923/4	21. D-CQAJ	Lj35A	Quick Air	QAJ2842
03. LX-WCV	B747-4R7F	Cargolux	UAE9962	HB-JCD	CS300	Swiss	27 SWR5186/93
04. OE-FRM	Ce510	GlobeAir	05 GAC172L/889A	22. G-POWH	B757-256	Titan Airways	24 AWC4081/2
OE-IRB	Global XRS	LaudaMotion Executive	LDX2	I-TAOS	Ce680	Barilla Servizi	
05. 5X-KNP	CRJ900	Uganda Airlines	06 UGD474	N194ER	Ce510	Blue Sky Aviation	
N500M	CL-604	Cook Aircraft Leasing	10	OO-SKS	Ce560XLS	Luxaviation Belgium	AAB323/823
06. D-BLUE	Falcon 2000LX	ACM Air Charter	BVR222	OO-VMF	Ce560XLS+	Air Service Liège	
G-JOTR	BAe146-RJ85	JOTA Aviation	ENZ677P/677	PH-FJK	Ce525B	JetNetherlands	dep
SP-ENL	B737-8CX	Enter Air	ENT511, ENT512/512P	23. LN-RDZ	DHC-8-402	Widerøe	dep WIF9010
TC-ACF	B747-481(F)	Saudia	SVA917/8	LN-WDK	DHC-8-402	Widerøe	arr WIF9009
07. 4K-SW888	B747-4R7F	Silk Way West	AZG251/2	TC-ACF	B747-481(F)	Saudia	SVA923/4
D-IMAH	Ce525A	Mahle International	08	24. D-AERO	ERJ135BJ	Air Hamburg	AHO518T/564J
HB-JBB	CS100	Swiss	dep SWR5183	D-CXLS	Ce560XLS+	Air Hamburg	AHO234
HB-JCR	A220-300	Swiss	13 SWR5182/3	LX-FCL	B747-467F	Cargolux	UAE9962
OE-FWF	Ce510	GlobeAir	GAC089X/Y	OE-HZA	ATR42-300(F)	Zimex Aviation Austria	tst
PH-HWM	CL-605	ASL		25. CS-PHI	EMB505	NetJets Europe	NJE808Q/288Q
08. PH-CJM	Ce680	ASL	arr	D-AXAY	A320-271N	Airbus Industrie	01 AIB167B/C
09. CS-DXV	Ce560XLS	NetJets Europe	NJE8HL/465Q	D-IBJJ	Ce525A	Air Hamburg	AHO124J
LX-FCL	B747-467F	Cargolux	UAE9988	JY-AGQ	A310-304(F)	Royal Jordanian	RJA033/034
OO-OCA	Beech 350i	Air Service Liège		26. 4K-SW888	B747-4R7F	Silk Way West	AZG1261/2
TC-ACC	B747-481(F)	Saudia	SVA923/4	N412SN	MD-11(F)	Western Global	28 WGN4248/9
10. D-CCCB	Lj35A	DRF	AMB417	PH-CJM	Ce680	ASL	
TC-ACM	B747-428F	Saudia	SVA3045/6	27. A7-BFA	B777-FDZ	Qatar Airways	QTR9JC/8211
11. HB-FXC	PC-12/47E	TAG Aviation		D-IGGG	Ce501		29
HB-VVV	PC-24	Pilatus Flugzeugwerke	f/v PCH124	HB-JBA	CS100	Swiss	06 SWR5192/5
LX-FCL	B747-467F	Cargolux	UAE9962	JY-AGQ	A310-304(F)	Royal Jordanian	RJA033/034
PH-HSF	B737-8K2	Transavia Airlines	TRA8014/0092	LX-RCV	B747-4R7F	Cargolux Italia	CLX7156/6
PH-HWM	CL-605	ASL		PH-CJM	Ce680	ASL	
13. A7-BFG	B777-FDZ	Qatar Airways	QTR8132/3	TC-ACF	B747-481(F)	Saudia	SVA917/8
HB-JCQ	A220-300	Swiss	20 SWR5182/5	28. 4O-VIP	EC120B	HeliFlight	
TC-ACM	B747-428F	Saudia	SVA917/8	N762MS	G650ER	Walmart	01
14. OE-HZA	ATR42-300(F)	Zimex Aviation Austria	arr	OE-FMJ	Ce525A	Heron Aviation	HRN122
OO-SKS	Ce560XLS	Luxaviation Belgium	AAB204	OE-FZB	Ce510	GlobeAir	GAC093U/V
15. C-GOHB	Falcon 2000LX	Aviation Starlink		29. D-AVXU	A321-271NX	Airbus Industrie	05 AIB054B/C
D-CEFE	Ce525C	E-Aviation	EFD4E	D-CASH	EMB505	Air Hamburg	AHO256A
16. ES-ACM	CRJ900	Nordica (SAS c/s)	arr EST9001	D-CFAZ	Lj60	FAI Rent-A-Jet	30 IFA1549/53
TC-ACM	B747-428F	Saudia	SVA923/4	HA-YFJ	Beech 400A	Fly-Coop	
17. LX-FCL	B747-467F	Cargolux	UAE9962	LX-SEB	Ce525B	Jetfly Aviation	JFA27M/28R
OK-UGJ	Ce680	Smartwings	TVS45J/46J	OE-FRS	Ce525A	White Sparrow	SOW3
VQ-BAY	A320-214	Aeroflot	23 AFL7722/3	OE-GPS	Ce550 Bravo	Tyrol Air Ambulance	TYW847S/848S
18. D-IHRG	Beech C90GT	Hamm Market Solutions		30. 9H-WIT	PC-12/47E	NextGen Aviation (Malta)	f/v 2x
OO-ACC	Ce525A	Air Service Liège		A7-BFI	B777-FDZ	Qatar Airways	31 QTR8211
OO-SKS	Ce560XLS	Luxaviation Belgium	AAB728	D-IPVD	Ce525A	Transavia Flug	
PH-ADQ	CRJ900LR	SAMCO Aircraft Maint.	arr SXI1957	PH-DWS	ERJ135LR	Air Charters Europe	arr JNL638
PH-DWA	ERJ145LR	Air Charters Europe	dep JNL206	TC-ACG	B747-481(F)	Saudia	SVA923/4
PH-DWW	R44	Heliar		TC-LJR	B777-F	Turkish Airlines	f/v THY6201
19. OK-UGJ	Ce680	Smartwings	TVS47J/48J	31. D-IAAS	EMB500	Arcus Air	AZE49IL/41UL
PH-ADU	CRJ900ER	SAMCO Aircraft Maint.	arr SXI1959	EI-EKI	B737-8AS	Ryanair	06 RYR9/6
20. A7-BFC	B777-FDZ	Qatar Airways	QTR8133	JY-AGQ	A310-304(F)	Royal Jordanian	01 RJA033/1271
CS-DUA	BAe125-750	NetJets Europe	NJE5EV/422H	LX-FCL	B747-467F	Cargolux	UAE9962

LX-UCV	B747-4R7F	Cargolux	CLX7613
OY-GCC	BN-2A-20	CAE Aviation	
PH-BBJ	Ce560XLS+	ASL	
PH-DWA	ERJ145LR	Air Charters Europe	arr JNL991

Transavia operated a return flight to Tarbes-Lourdes on the 1st. The former CSA ATR on the 2nd departed back to Prague all white. Uganda Airlines ferried two new Canadairjets, 5X-KDP and 5X-KNP, to Africa via Europe on the 5th. Unfortunately the first listed aircraft did not make the airport curfew and diverted to Brussels. "KNP" in the registration stands for Kabalega National Park. On the 6th JOTA operated a charter to Thessaloniki and Enter Air operated a return flight to Tarbes-Lourdes. An aircraft change at SAMCO on the 7th. More Swiss Bombardier jets would follow this month. The Pilatus PC-24 demonstrator visited a local PC-12 user on the 11th and Transavia arrived from Tarbes-Lourdes again on that same day. The first ATR for Zimex Aviation Austria arrived on the 14th after having being painted in the UK. A Nordica Canadairjet arrived on the 16th still in full Scandinavian colours. The Aeroflot Airbus on the 17th arrived for a fresh coat of paint. Former S5-AAN was ferried to Maastricht on the 18th. The next day former S5-AAK also arrived at the airport. Both aircraft were still in full Adria colours. The Jordanian Airbus on the 20th visited again after a lengthy maintenance period. The Titan Boeing 757 on the 22nd was reated to the Genk vs FC Liverpool football game. Widerøe had an aircraft change at SAMCO on the 23rd. The Zimex ATR on the 24th performed a local test flight. The next day an Airbus destined for Viva Aerobus arrived for painting. This aircraft is scheduled to become XA-VIT upon delivery. The helicopter on the 28th was logged on this day. A second Airbus arrived on the 29th. This Airbus destined for JetBlue was also the first 'NX' that visited the airport. If all goes as planned this will be put in service with registration N2029J. The Pilatus on the 30th is based at Rotterdam. The Ryanair Boeing 737 on the 31st visited the local paint shop for a fresh coat of paint.

Credits: SG Maastricht / Threshold, Flymst.nl forum.

## Groningen - Eelde

			October 2019
01. CS-DXT	Ce560XLS	NetJets Europe	arr NJE422U
D-IAWG	Ce425	Aerowest	
F-ZBGQ	Beech 350i	French Customs	FDO7533
02. OY-GBC	P2006T	Greybird Aviation	
03. OE-FIT	Ce510	GlobeAir	arr
04. OK-BEE	Beech 400A	JetBee Czech	
05. D-IAWG	Ce425	Aerowest	
OO-JAR	B737-7K5	TUI Belgium	TFL642/94P

06. LN-LOL	Ce208B	Blom Geomatics	arr LED7
PH-SOE	PC-12/47E	H.M. van Soest	arr
07. D-IAAS	EMB500	Arcus Air	arr AZE41HE
10. D-IAKN	Ce525A	Star Wings Dortmund	STQ111
11. D-IAKN	Ce525A	Star Wings Dortmund	STQ111
N125DE	Eclipse 500	Innovation Transportation	dep
12. F-GTVC	Beech 1900D	Twin Jet	
T7-HGW	SF-50	Heinrich Weiss	tst
13. T7-HGW	SF-50	Heinrich Weiss	tst
14. D-GRLG	DA42	European Flight Academy	PTO502/3
T7-HGW	SF-50	Heinrich Weiss	tst
15. OE-EPH	PC-12/47E	Goldeck Flug	
PH-ACI	CeT303	AIS Flight Academy	
PH-TXA	Ce510	JetNetherlands	16
16. YU-BST	Ce525	Eagle Express	arr EES200
17. D-GRLG	DA42	European Flight Academy	PTO500/4
D-IFCS	BN-2B-20	FLN	3x *
PH-TXA	Ce510	JetNetherlands	
SE-RMB	Ce525B	H-Bird Aviation	
18. F-HTVB	B737-8K2	Transavia	f/v TRA6392/5775
19. N27052	Eclipse 500	Commodore Holdings	21
20. F-HBZA	Ce550	VallJet	VLJ52AZ
23. OE-GWV	Ce560XLS	Jet 24	24
PH-ACI	CeT303	AIS Flight Academy	
25. J-013	F-16AM	313sq	*
J-017	F-16AM	312sq	*
J-020	F-16AM	312sq	*
F-HTVC	B737-8K2	Transavia	f/v TRA6392/5775
G-RVNK	P68B	Ravenair	
PH-TXA	Ce510	JetNetherlands	27
26. OE-FGI	Ce525	White Sparrow	SOW2
27. N518KA	G650ER	Solairus Aviation	arr
OE-HLL	CL-300	Int'l Jet Management	IJM439
OK-RLV	G280	Avcon Jet	dep
28. D-CAMB	Lj31A	Jetcall	JCL4
PH-HSE	B737-8K2	KLM	KLM9851
29. G-OSRB	B727-2S2F	T2 Aviation	
PH-BGM	B737-7K2	KLM	KLM9851
PH-CGN	Do228-212	Kustwacht	CG01
30. 16712	C295MPA	Esq502	31 FAP71

On the 1st a French Beech performed an ILS approach and landed before it continued to Esbjerg. Transavia has leased two aircraft from its French counterpart. Both visited Eelde this month. At the end of the month two KLM Boeing 737s on a test flight. The month ended with a Portugese Air Force CASA.

Credit: GEAS, FlyGRQ.

## Deventer-Teuge

			October 2019
01. D-FLIZ	Ce208	Skydive Center Spa	dep



D-HMIM is based at Lelystad airport. Although owned by S.P. Luftbild this H269C is currently being used by Rotor and Wings. (Teuge, 29 October 2019, Remco de Wit)



Malta Air is a low-cost airline and joint venture between Ryanair and the Government of Malta. The airline has been using aircraft transferred from the parent company in full Ryanair colours, just like Boeing 737 9H-QBZ on this photo. (Eindhoven, 26 October 2019, Michiel van Herten)

PH-ELP	EC135T2	ANWB - MAA		HA-LKG	B737-8CX	Smartwings	TVS4342/434F
02.N2648X	Ce501	T.S. Aviation		HB-LNX	PA-31T2	Transwing	
PH-MAS	P68C-TC	Miramap Aerial Surveys		N846AX	B777-2U8ER	Omni Air International	03 CMB551
03.D-FIPS	PC-6/B2-H4	CIAS Airlines	15	OO-HHO	Falcon 8X	Luxaviation Belgium	2x AAB995
PH-ATT	H269C	Heli Holland Holland		OO-PKX	Ce750	Air Service Liège	
PH-DTS	DA42	Wings over Holland		OY-JTT	B737-73S	Jet Time	JTG9859/0860
05.N260AM	Ce525	Bay Air		03.D-IGWT	Ce525A	Sylt Air	AWU703G
N417RK	PA-46-350P	Marco van der Horst		LX-ONE	Lj45	Luxembourg Air Ambulance	LRQ695
06.I-VICC	P68B	Aeronike		PH-LAU	Falcon 900EX	Exxaero	XRO604
07.PH-HBH	H269C	Heli Holland Holding		04.FB14	F-16BM	2w	*BAF265
PH-HCF	Cabri G2	HeliCentre		02	C-17A	HAW	Bartok93
PH-WTG	EC135P2+	HeliCentre		06bl	C-27J	Transporto Esk	
08.D-FAAA	PC-12/47E		09	J-882	F-16BM	312sq	*Tiger01
PH-ECD	EC120B	Heli Holland Holding		L-07	PC-7	131EMVOsq	*Diamond08
09.PH-KIO	P2006T	Kavel 10	12	L-08	PC-7	131EMVOsq	*Diamond05
10.PH-LBR	Ce208B	Skydive Rotterdam		Q-14	AH-64DN	301sq	*Redskin14, GLV-V
PH-RWY	Bo105DBS-4	Rotor & Wings	23	S-453	AS532U2	300sq	*Wildcat72
11.PH-HHJ	AS355F2	Heli Holland Holding		84004/844	Tp84	TFSE	SVF808
PH-KGJ	EC120B	HeliFlight – Heli Holland		D-ICBA	Ce525A	ProAir	
15.PH-HCC	Cabri G2	HeliCentre		OO-JAF	B737-8K5	TUI Belgium	JAF9520/953F
PH-RBC	EC120B	HeliAir		OO-PKX	Ce750	Air Service Liège	08
16.PH-KTM	R44	HeliAir		PH-CJM	Ce680	ASL	08
17.N4207X	Ce337F	Dutch Electric Aviation Centre	del	PH-FJK	Ce525B	JetNetherlands	13
PH-KIO	P2006T	Kavel 10	18	PH-LAU	Falcon 900EX	Exxaero	06 XRO235
18.S-454	AS532U2	300sq		05.CS-DXX	Ce560XLS	NetJets Europe	NJE273G/986U
N9018Z	Ce208B	Mission Aviation Fellowship	dep	06.D-ICBA	Ce525A	ProAir	
21.LX-JFC	PC-12/47E	Jetfly Aviation		HB-LNL	PA-31T	Cheyenne Operators	
N690PK	RC690A		dep	OY-JZL	B737-804	Jet Time	TRA6204/0079
23.PH-PXY	AW139	Nationale Politie	ZXP25	07.D-IBBB	Raytheon 390	Amola	
24.N2648X	Ce501	T.S. Aviation		LX-LAR	Lj45	Luxembourg Air Ambulance	LRQ709
PH-HBH	H269C	Heli Holland Holding		N567CA	B757-223	National Airlines	CMB509
PH-SWN	Ce414A	PARC Air	arr	PH-HWM	CL-605	JetNetherlands	dep
26.LX-JFQ	PC-12/47	Jetfly Aviation		08.FB14	F-16BM	2w	*
29.D-HMIM	H269C	Rotor & Wings		N480MC	B747-422	Atlas Air	f/v 09 GTI8280/1
PH-ATT	H269C	Heli Holland Holland		OO-ACC	Ce525A	Air Service Liège	09
PH-KIO	P2006T	Kavel 10		09.D-IBBB	Raytheon 390	Amola	
30.F-HAGH	Ce525	ETI Group (a.o.)		N139LE	L-39ZO	Skyline Aviation	14 tdy
31.F-HAGH	Ce525	ETI Group (a.o.)		OO-ACC	Ce525A	Air Service Liège	
PH-AVW	R44	A. F. C. van Westerop		PH-ANO	Ce560XLS	JetNetherlands	
PH-PXE	EC135P2+	Nationale Politie	ZXP05	PH-CGN	Do228-212	Kustwacht	*NCG03
PH-RIW	R44	Riwald Recycling		UR-CEZ	An-12BP	Cavok Air	CVK7051/-
				10.Z1+91	UH-1D	THR30	*GAM7191
				Q-18	AH-64DN	301sq	*GLV-V
				D-CBBB	Ce560XLS+	DC Aviation	DCS703
				D-CDDD	Ce560XLS+	DC Aviation	DCS713
				11.84006/846	Tp84	TFSE	SVF816
				17-03139	AH-64E	Co B/1-6 CAV	14 R73139
				17-03140	AH-64E	Co A/1-6 CAV	16 R20160/-
				17-03143	AH-64E	Co B/1-6 CAV	14 R73139
				17-13144	AH-64E	Co B/1-6 CAV	14 R73139
				17-03151	AH-64E	Co A/1-6 CAV	16 R20160/-
				17-03153	AH-64E	Co A/1-6 CAV	17 R20160/73153
				17-03154	AH-64E	Co B/1-6 CAV	14 R73139
				17-03156	AH-64E	Co A/1-6 CAV	16 R20160/-
				17-03164	AH-64E	Co B/1-6 CAV	14 R73164/170
				17-03170	AH-64E	Co B/1-6 CAV	14 R73164/170
				17-03173	AH-64E	Co B/1-6 CAV	14 R73164/170

On the 17th the Dutch Electric Aviation Centre officially took delivery of their Cessna 337 that will be used as a flying test bed. The MAF Cessna on the 18th departed to Norway instead of going on a mission in Africa.

Credit: Teuge Airport, Teuge Airport Group (Facebook).

## Eindhoven

		October 2019	
01.85+10	CH-53GS	64HSG	*GAF616
44+21	Tomado IDS	TLG51	*GAFM51
D-IBBB	Raytheon 390	Amola	
OO-PKX	Ce750	Air Service Liège	dep
PH-CGN	Do228-212	Kustwacht	*NCG01
02.F-HTLS	EMB500	PH Occitanie	

17-03175	AH-64E	Co B/1-6 CAV	14 R73164/170	10-20281	UH-60M	Co C/2-1 AVN	R20281
14-08168	CH-47F	Co B/2-1 AVN	17 R08168/08201	10-26260	UH-60M	nn / 2-1 AVN	R26555/20164
15-08195	CH-47F	Co B/2-1 AVN	16 R08196/ -	11-20375	UH-60M	Co C/2-1 AVN	15 R20281/375
15-08196	CH-47F	Co B/2-1 AVN	16 R08196/ -	12-20451	UH-60M	nn / 2-1 AVN	16 R08467/ -
15-08197	CH-47F	Co B/2-1 AVN	14 R08197/466	D-CGGG	Lj31A	Jetcall	JCL3
15-08466	CH-47F	Co B/2-1 AVN	14 R08197/466	M-ABJA	Lj45XR	Ryanair	
16-08201	CH-47F	Co B/2-1 AVN	17 R08168/08201	OO-PKX	Ce750	Air Service Liège	15
08-20160	HH-60M	Co C/2-1 AVN	14 R20160	PH-HWM	CL-605	JetNetherlands	18
08-20163	HH-60M	Co C/2-1 AVN	16 R20163	15.15-08194	CH-47F	Co B/2-1 AVN	16 R08194/ -
08-20164	HH-60M	Co C/2-1 AVN	14 R20163/4	15-08467	CH-47F	Co B/2-1 AVN	16 R08467
08-20165	HH-60M	Co C/2-1 AVN	14 R20160	D-CAWK	Ce680A	Aerowest	
08-20168	HH-60M	Co C/2-1 AVN	14 R20163/4	LX-JFS	PC-12/47E	Jetfly Aviation	JFA02L/03L
08-20171	HH-60M	Co C/2-1 AVN	14 R20160	OO-PKX	Ce750	Air Service Liège	16
09-20221	UH-60M	nn / 3-1 AVN	17 R20221	16.L-07	PC-7	131EMVosq	*NAF131
10-20255	UH-60M	nn / 3-1 AVN	16 R20221/55	D-CBEN	Ce560XLS+	Adolf Würth	
10-20309	UH-60M	Co C/2-1 AVN	R20221	D-CMDH	Ce680	E-Aviation	EFD6H
OO-ACC	Ce525A	Air Service Liège		D-CRON	Ce560XLS	Silver Cloud Air	SCR762
PH-HWM	CL-605	JetNetherlands	13 2x	OO-PKX	Ce750	Air Service Liège	
12.D-CRON	Ce560XLS	Silver Cloud Air	SCR762	17.17-03153	AH-64E	Co A/1-6 CAV	R73153
D-ICBA	Ce525A	ProAir		17-03163	AH-64E	nn /1-6 AVN	R73153
OO-ACC	Ce525A	Air Service Liège		17-03166	AH-64E	Co A/1-6 AVN	R73153
PH-CJM	Ce680	ASL		17-03169	AH-64E	Co A/1-6 AVN	R73153
13.D-CCVD	Ce560XLS	Atlas Air Service	ATL1D	18.D-CASH	EMB505	Air Hamburg	AHO254U
OO-XLS	Ce560XLS+	Air Service Liège		PH-FJK	Ce525B	JetNetherlands	21
14.FB23	F-16BM	10w/OCU	*BAF451	PH-HWM	CL-605	JetNetherlands	30 2x
17-03141	AH-64E	nn /1-6 AVN	15 R73149/141	19.HB-LNL	PA-31T	Cheyenne Operators	
17-03145	AH-64E	Co C/1-6 AVN	R73149	OO-XLS	Ce560XLS+	Air Service Liège	
17-03146	AH-64E	nn /1-6 AVN	R73149	20.D-ICBA	Ce525A	ProAir	
17-03147	AH-64E	nn /1-6 AVN	15 R73165/ -	HA-LVG	A321-271NX	Wizz Air	f/v WZZ8VS/9NV
17-03149	AH-64E	Co C/1-6 AVN	R73149	OO-PKX	Ce750	Air Service Liège	23
17-03163	AH-64E	Co /1-6 AVN	17 R73169/153	21.FB14	F-16BM	2w	*BAF215
17-03165	AH-64E	Co C/1-6 AVN	15 R73165/ -	L-09	PC-7	131EMVosq	*
17-03166	AH-64E	Co A/1-6 AVN	17 R73169/153	L-13	PC-7	131EMVosq	*
17-03168	AH-64E	nn /1-6 AVN	15 R73165/ -	OO-TUP	B737-85P	TUI Belgium	JAF910F/9110
17-03169	AH-64E	Co A/1-6 AVN	17 R73169/153	PH-CDE	B737-8KN	Corendon Dutch Airl.	CND921P/9291
17-03171	AH-64E	Co C/1-6 AVN	15 R73165/ -	22.D-CESA	Ce550 Bravo	Euro Link	
17-03174	AH-64E	Co C/1-6 AVN	16 R73169/ -	D-CHRD	Ce680	Hahn Air	HHN909
15-08194	CH-47F	Co B/2-1 AVN	15 R08467/194	OE-FGI	Ce525	White Sparrow	SOW2
15-08467	CH-47F	Co B/2-1 AVN	15 R08467	PH-FJK	Ce525B	JetNetherlands	27
16-08198	CH-47F	Co B/2-1 AVN	R08199	23.03	C-17A	HAW	Bartok93
16-08199	CH-47F	Co B/2-1 AVN	R08199	D-CHRD	Ce680	Hahn Air	HHN909
16-08200	CH-47F	Co B/2-1 AVN	15 R08202	F-HTVB	B737-8K2	Transavia France	f/v TRA6710/5085
16-08202	CH-47F	Co B/2-1 AVN	15 R08202	LY-NVR	A320-214	SunExpress	SXS546/7
90-26260	UH-60L	nn / 2-1 AVN	17 R26260/20221	PH-CJM	Ce680	ASL	
90-26266	UH-60L	nn / 2-1 AVN	15 R26260/ -	SP-ENV	B737-8BK	Enter Air	25 ENT57DP/59AH
90-26300	UH-60L	nn / 2-1 AVN	16 R26260/20255	24.D-BOOC	Ce750	AirX Charter Germ.	AXG2503/2402
90-26271	UH-60L	nn / 2-1 AVN	16 R26707/20255	25.CH04	C-130H	20sq	BAF651
93-26478	UH-60L	nn / 2-1 AVN	15 R26707/ -	FB20	F-16BM	10w/OCU	*BAF451
94-26555	UH-60L	nn / 2-1 AVN	17 R26555/20221	0110	B737-86X	1.BLTr	27 PLF110
96-26706	UH-60L	nn / 2-1 AVN	R26555	013	C295M	8.BLTr	28 PLF034
96-26707	UH-60L	nn / 2-1 AVN	15 R26707/ -	26.03	C-17A	HAW	Bartok94



Robinson R22 F-HMMH is registered to a company called Helico 01. Philippe Druguet is the registered president for that company and several other companies in Mezerait, some 140 kilometres west of Geneva. (Hilversum, 24 September 2019, Ernesto Bauer)



This Learjet 35A was registered in 2014 with the Swedish Defence Materiel Administration (Försvarets materielverk) as owner. Saab Nyge Aero is the operator for SE-DHO and is using the jet for target towing duties. (Leeuwarden, 31 October 2019, Richard Baas)

9H-QBZ	B737-8AS	Malta Air	f/v RYR4853/4
27. PH-FJK	Ce525B	JetNetherlands	30
OO-PKX	Ce750	Air Service Liège	29
RA-76842	IL-76TD	Aviacon Zitotrans	29 AZS8002/7001
28. D-665	CH-47D	298sq	*Grizzly73, GLV-V
T-264	KDC-10	334sq (spec mks)	arr NAF41
OE-LOQ	A320-214	LaudaMotion	f/v LDM148/9
UR-CBG	An-12BP	Cavok Air	30 CVK7051/ -
29. 027	C295M	8. BLTr	
0001	G550	1. BLTr	PLF105
9H-QAM	B737-800	Malta Air	f/v RYR6505/6
D-AEAK	A300B4-622RF	EAT Leipzig (DHL c/s)	BCS6074/880P
30. LX-N90450	E-3A	NAEW&CF	*Nato40
OO-PKX	Ce750	Air Service Liège	03
PH-FJK	Ce525B	JetNetherlands	06
31. 1x	F-16AM/BM	2w	*BAF235
86/F-RAFB	Falcon 7X	ET00.060	CTM1277
PH-CJM	Ce680	ASL	01

Eindhoven started October with a surprise visit of a German CH-53, two Swedish Hercules transporters and a German Huey. Both German helicopters visited Gilze-Rijen prior to their flight over Eindhoven. From 11 October till 17 October the 1st CAB returned to the port of Rotterdam, ending their six months deployment in Europe. Based on the available information we did our best to gather all information known. In the last week of the month various World War 2 memorials were held, including some ceremonies for fallen Polish soldiers. High ranked officials and politicians attended these gatherings and used CASA 295s, B737-800 and the Gulfstream 550. Another special occasion took place on 28 October with the last active service arrival of T-264. This former Martinair DC-10 served over 30 years with 334sq and retired from use for the Netherlands Air Force. By the time you receive this Scramble her new owner Omega Air Tankers has received the airframe in their San Antonio (TX) base. Three interesting military charters this month. The first one arrived on the 2nd and was operated by Omni Air. The second was operated on the 7th by National Airlines and the third arrived on the 8th and was operated by an Atlas Air Boeing 747. The last day of September a military charter departed to Valencia via Brussels. That charter operated by Smartwings returned on the 2nd, again via Brussels. Also on the 2nd a charter for PSV to Trondheim was operated by Jet Time. For the return trip a TUI Belgium aircraft was used on the 4th. The Jet Time Boeing 737 that operated for Transavia this summer departed back to Copenhagen on the 6th. Both flights on the 21st went to Glasgow. On the 23rd Enter Air operated a charter for LASK Linz. On the 28th LaudaMotion, part of the Ryanair group, began operating flights from Vienna. The former Voyageur DHC-7 C-GGUL that had arrived at the airport in 2015 was sold by BVA Auctions in July 2019. It took a while before the new owner was able to transport the aircraft off base but that finally happened on the 30th (fuselage) and the 31st (wings).

Additional note: The underlined movements above are gathered with help of ADS-B/scanner data.

Credits: EWAS, Oscar Sannen, Scramble MB.

### Hilversum

September 2019			
01. PH-KJG	EC120B	Heli Holland Holding	02
PH-RIS	EC130B4	KNSF Flight Services	
PH-WTG	EC135P2+	HeliCentre	f/v
02. PH-ATT	H269C	Heli Holland Holding	
03. PH-ATT	H269C	Heli Holland Holding	
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-ULK	AS355N	HeliAir	*
05. PH-HGB	R44	HeliAir	tst
06. PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
08. N-233	NH90-NFH	860sq	*Neptuneformation
N-324	NH90-NFH	860sq	*Neptuneformation
09. N359ST	PC-12/47E	TVPX ARS	
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
10. D-HGVB	R44	Rotavisie	tst
OO-KNM	R44	Noël Keyzers	
PH-KTM	R44	HeliAir	
11. PH-KTM	R44	HeliAir	tst
PH-WIK	AS350B3	HeliAir	div
12. PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
13. D-HGVB	R44	Rotavisie	
14. PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-KMR	GA-8	Stichting Ambulancevliegtuig	
PH-PXZ	AW139	Nationale Politie	* ZXP26
16. PH-ULP	EC135T2	ANWB - MAA	Lifeline1
18. PH-DWW	R44	Wikselaar Satellite Trading	tst
19. G-BWTG	DHC-1	Classic Wings	
PH-ENK	R44	Bear Helicopters	2x tst
PH-KTM	R44	HeliAir	tst
PH-SWP	Ce208B	Nat. Parachutisten Centrum Teuge	20
PH-ULP	EC135T2	ANWB - MAA	Lifeline1
20. PH-ATT	H269C	Heli Holland Holding	
PH-ULP	EC135T2	ANWB - MAA	Lifeline1
22. PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-PBA	DC-3C	Dutch Dakota Association	2x *
23. F-HMMH	R22	Philippe Druguet	25
OO-HEY	R44	Heli & Co	
24. F-HMMH	R22	Philippe Druguet	tst
25. PH-HVB	EC135T2+	ANWB - MAA	Lifeline1

Both helicopters on the 8th were on their way from Rotterdam to Den Helder with N-233 as Fiber11 and N-324 as Neptune14 when it was decided to overfly Hilversum with the listed callsign. The AS350B3 on the 11th diverted to Hilversum while enroute from Rotterdam to Lelystad. The Cessna on the 19th was used for paradrops at the airport. The French helicopter that arrived on the 23rd performed some local flights on the 24th.

October 2019			
02. PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-KTM	R44	HeliAir	tst

03.OO-SAF	R44	Van Oostveldt		ZJ230	Apache AH1	3Regt	Gunship3/-form
09.PH-KTM	R44	HeliAir	tst	ZZ393	Wildcat AH1	1Regt	Gunship6/-form
PH-PXB	EC135P2+	Nationale Politie	ZXP02	ZZ524	Wildcat AH1	1Regt	Gunship5/-form
PH-RIW	R44	Riwald Recycling		ZZ525	Wildcat AH1	1Regt	Gunship4/-form
10.OO-HCY	R44	Heli & Co		24.PH-PXY	AW139	Nationale Politie	Police25
PH-TTR	H135	ANWB - MAA	Lifeline2	28.Q-14	AH-64DN	301sq	arr NAF14
11.PH-KTM	R44	HeliAir	tst	Q-19	AH-64DN	301sq	arr NAF19
14.PH-PXB	EC135P2+	Nationale Politie	tst ZXP02	29.PH-PXZ	AW139	Nationale Politie	Police26
15.D-HMIM	H269C	Rotor & Wings					
16.D-HGVB	R44	Rotavisie	tst				
PH-ECE	EC120B	Heli Holland Holding					
18.PH-HGB	R44	HeliAir	tst				
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1				
21.PH-ELP	EC135T2	ANWB - MAA	Lifeline1				
22.N-227	NH90-NFH	860sq	Neptune14				
D-HGVB	R44	Rotavisie					
OO-HCY	R44	Heli & Co					
23.PH-DWW	R44	Wikselaar Satellite Trading	2x tst				
PH-HCD	Cabri G2	HeliCentre					
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1				
24.40-VIP	EC120B	HeliFlight	f/v tst				
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1				
26.PH-HVB	EC135T2+	ANWB - MAA	Lifeline1				
27.PH-HVB	EC135T2+	ANWB - MAA	Lifeline1				

The NH90 on the 22nd made a full stop to wash its window after a bird hit. The EC120 on the 24th is a new addition for HeliFlight and performed some approaches.

Credits: Kees van Aggelen, Ernesto Bauer, Vliegveld Hilversum (Facebook), Scramble MB.

### Gilze-Rijen

				October 2019			
01.85+10	CH-53GS	HSG64			GAF616		
02.G-273	C-130H-30	336sq			*NAF74		
03.FB23	F-16BM	10w/OCU			*BAF451		
04.FB23	F-16BM	10w/OCU			*BAF451		
<u>L-07</u>	PC-7	131EMVOsq			*Diamond08		
<u>L-08</u>	PC-7	131EMVOsq			*Diamond04		
<u>L-09</u>	PC-7	131EMVOsq			*Diamond20		
07.PH-HCE	R66	HeliCentre					
10.71+91	UH-1D	THR30			GAM7191		
11.L-13	PC-7	131EMVOsq			*Diamond04		
14.FB23	F-16BM	10w/OCU			*BAF451		
16.G-275	C-130H-30	336sq			*NAF71		
L-05	PC-7	131EMVOsq	2x		*Diamond07		
L-08	PC-7	131EMVOsq			*NAF134		
L-09	PC-7	131EMVOsq			*NAF132		
17.FB17	F-16BM	10w/OCU			*BAF451		
Q-14	AH-64DN	301sq			dep NAF14		
Q-19	AH-64DN	301sq			dep NAF19		
21.J-015	F-16AM	312/313sq			*Tiger01		
L-08	PC-7	131EMVOsq			*NAF134		
22.1x	Apache AH1	3Regt			Gunship2/-form		
ZJ190	Apache AH1	3Regt			Gunship1/-form		

The German CH-53GS and UH-1D were the highlights of October 2019 for Gilze-Rijen. Two 301sq Apaches left for Germany on 17 October and returned eleven days later, completing their weapons training. The Army Air Corps formation of Apaches and Wildcats was heading Westbound, back to the UK.

Additional note: The underlined movements above are gathered with help of ADS-B/scanner data.

Credits: Gilze Rijen Aviation Society, Scramble MB.

### De Kooy

				October 2019			
01.G-273	C-130H-30	336sq					NAF73
09.F-HOHN	AS365N3	22S					
14.D-HEMV	EC120B						
22.G-275	C-130H-30	336sq					Nasty91
24.2x	AS532U2	300sq					
	CH01	C-130H					Nasty91
	G-275	C-130H-30					Nasty81
28.G-275	C-130H-30	336sq					

The French Marine AS365N3 was a nice change of sight compared to the regular NHV AS365Ns, wearing full 22S markings and its civil registration clearly visible. The last four C-130H Hercules movements are related to the C-130 FWIT/TWIC training course held at Leeuwarden, explaining the deviating call signs.

Credits: SG De Kooy / Den Helder, Den Helder Aviation Photography, Oscar Sannen, Scramble MB.

### Leeuwarden

				October 2019			
03.16707	C295M	Esq502					AFP63
17.XX202/CS	Hawk T1A	100sq					arr RFR7023
	XX246/CA	Hawk T1A					100sq (JFACTSU mks) arr RFR7022
	XX318/CG	Hawk T1A					100sq arr RFR7021
21.CH01	C-130H	20sq					BAF644
	G-275	C-130H-30					NAF75
	15113	F-16AM					Esq201/301 AFP87
	15131	F-16AM					Esq201/301 AFP88
	SE-DHO	Lj35A					SAAB Nyge Aero TGT01
22.CH07	C-130H	20sq					BAF672
	16701	C295M					Esq502 AFP45
28.FA106	F-16AM	10w					BAF503
FA136	F-16AM	10w					BAF504



Until October 2019 Eurocopter 40-VIP was being operated by Airways Scenic & Charter. The helicopter was sold to HeliFlight in May 2019 but arrived in the Netherlands around August 2019. The helicopter was flown to Maastricht for work and re-registration at the end of October 2019 and will become PH-PDK. (Lelystad, 7 October 2019, Frank Mink)



As part of Cold Igloo 2019 (hosted at Buchel), Volkel got to host three Italian Tornado IDSs. They normally operate from Ghedi with the 154th Gruppo and 6th Stormo. In the tail of MM7086 the well known 6 Stormo Demon character can be seen, preparing its departure back to Italy. (Volkel, 24 October 2019, Jeroen Jonkers)

J-006	F-16AM	312/313sq	Devil3	18.G-MEDZ	Beech B200	Zeusch Aviation	31
J-014	F-16AM	312/313sq	Devil4	N464LB	PA-46-350P	Rio Aviation	
J-017	F-16AM	312/313sq	Ivan2	P4-SAM	ERJ135BJ	SmartJet Aviation	dep
J-063	F-16AM	312/313sq (313sq mks)	Devil2	PH-HOV	H145	RAV Fryslân – MAA	arr
J-197	F-16AM	312/313sq (311sq mks)	Ivan1	PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
J-512	F-16AM	312/313sq	Devil1	PH-PXB	EC135P2+	Nationale Politie	tst ZXP02
J-514	F-16AM	312/313sq	Ivan4	19.D-HGVB	R44	Rotavisie	
J-882	F-16BM	312sq	Ivan3	20.N13FY	AT-6A	Hanno Wesdorp	*
XX191/CC	Hawk T1A	100sq	RFR7021	N125DE	Eclipse 500	Innovation Transportation	01
29.S-454	AS532U2	300sq	Duke3	N555MS	MD600N	Vertical Carriage	21

Following the graduation weeks of the FWIT 2019 and TWIC 2019 training courses the number of visitors increased. Three 100sq Hawks arrived as opponents, a SAAB Learjet 35 arrived as Target01 revealing its target towing purpose. The Dutch and Belgian C-130Hs are related to the TWIC part. Half of Volkels airworthy fleet dropped in on 28 October for large formation exercise and another RAF Hawk arrived, this time bringing technical support to fix XX246.

Credits: MILSpotters, Oscar Sannen, Dirk Visser and Scramble MB.

## Lelystad

October 2019			
01.PH-MFA	DA42NG	Martinair Lelystad	KLM7910
02.PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
03.9H-VCE	CL-350	VistaJet Malta	VJT474
PH-MBO	DA62	M. Boers	
05.D-HGVB	R44	Rotavisie	
PH-HCH	EC120B	HeliCentre	
PH-HVB	EC135T2+	ANWB - MAA	Lifeline1
PH-KTM	R44	HeliAir	
06.PH-KFA	DA42	KLM Flight Academy	KLM7902
07.D-CCBH	Ce525B	JetKontor	
G-TACN	DA62	Flight Calibration Service	VOR09
PH-DOC	H135	ANWB - MAA	dep
08.40-VIP	EC120B	HeliFlight	arr
09.D-EHPL	PA-46-350P		
D-HGVB	R44	Rotavisie	
10.G-HTRL	PA-34-220T	Techtest	11
G-TACN	DA62	Flight Calibration Service	VOR09
PH-MAA	EC135T2+	ANWB - MAA	11
PH-PXD	EC135P2+	Nationale Politie	ZXP04
11.PH-PXC	EC135P2+	Nationale Politie	ZXP03
PH-TTR	H135	ANWB - MAA	14
14.PH-PXF	EC135P2+	Nationale Politie	ZXP06
15.PH-KFA	DA42	KLM Flight Academy	KLM7910
PH-KTM	R44	HeliAir	tst
17.PH-KFA	DA42	KLM Flight Academy	KLM7902
PH-KTM	R44	HeliAir	

21.PH-PXD	EC135P2+	Nationale Politie	tst ZXP04
22.G-PCTW	PC-12/47E	Yellow Skies	24
PH-DKI	P68C	Zeeland Air	
24.D-GFPI	P68B	Ravenair	RVR68F
PH-DOC	H135	ANWB - MAA	arr
PH-ELP	EC135T2	ANWB - MAA	arr
PH-PXB	EC135P2+	Nationale Politie	2x ZXP02
25.PH-KIO	P2006T	Kavel 10	
26.D-HGVB	R44	Rotavisie	tst
28.F-GMBC	PA-46-310P	Aeromist	
PH-KIO	P2006T	Kavel 10	
29.D-HMIM	H269C	Rotor & Wings	
PH-ELP	EC135T2	ANWB - MAA	4x tst
PH-KFA	DA42	KLM Flight Academy	KLM7928
PH-PXD	EC135P2+	Nationale Politie	ZXP04
30.D-GMAD	DA42NG		
31.PH-WPB	PC-12/47E		03

On the 7th the new ANWB H135 departed to Bonn. On the 8th a Montenegro registered EC120 arrived. The helicopter has been sold to HeliFlight and is expected to receive a Dutch registration. The ANWB helicopter on the 10th arrived from Bonn and departed the next day to Volkel. The ANWB helicopter on the 11th arrived from Rotterdam and departed to Bonn a few days later. The Embraer on the 18th departed after paintwork by SATYS. The ANWB H145 on the 18th arrived from Bonn. on the 24th the ANWB H135 arrived from Bonn and a company helicopter arrived from Groningen. The latter performed several local test flights on the 29th.

Credits: Berend Jan Floor, Richard Poeser, Ernesto Bauer, Lelystad Airport Aviation Group (Facebook), Scramble MB.

## Volkel

October 2019			
01.44+21	Tornado IDS	TLG51	*GAFM51
04.D-106	CH-47D	298sq	*Grizzly04
L-08	PC-7	131EMVOsq	*Diamond05
08.J-368	F-16BM	313sq (td mks)	dep Tiger01
10.J-630	F-16AM	312/313sq	arr Tiger01

J-641	F-16AM	312/313sq	dep Tiger01
14. MM62178	KC-130J	50°GR/46BA	IAM4674
MM7073/6-34	Tornado IDS	154°GR/6ST	24 IAM0602/601
MM7075/6-07	Tornado IDS	154°GR/6ST	24 IAM0602/601
MM7086/6-60	Tornado IDS	154°GR/6ST	24 IAM0602/601
18. FB17	F-16BM	10w/OCU	*BAF451
21. J-015	F-16AM	312sq	arr Tiger01
25. MM62178	KC-130J	50°GR/46BA	IAM4675
29. S-454	AS532U2	300sq	*Wolfhound05

PH-HXK	B737-800	Transavia	arr TRA053
29. J-065	F-16BM	322sq	*Rack
Q-17	AH-64DN	301sq	tst Redskin06
PH-PSC	PA-18	SKHV	*
30. LY-CHF	B737-31S	KlasJet (ASL c/s)	arr KLJ1199
31. D-102	CH-47D	298sq	*Grizzly05
Q-17	AH-64DN	301sq	dep Redskin06

The Italian Air Force deployed out of Volkel for two weeks as part of Cold Igloo 2019. Despite the hosting base was in Büchel Germany we got some part of the excitement. The support was a single KC-130J, visiting twice. On the local side all Tiger01 movements are relocations to and from Woensdrecht, receiving maintenance at LCW.

Credits: SGVolkel Message Board, Scramble MB.

## Woensdrecht

October 2019			
02. G-KAXF	Hunter F6A	DHHF	14
PH-LAB	Ce550	NLR - TU Delft	*
03. PH-PXE	EC135P2+	Nationale Politie	ZXP05
04. F-HAAF	A320-214	Avolon (Aigle Azur c/s)	arr
F-HAQD	A320-214	Avolon (Aigle Azur c/s)	arr
PH-HXN	B737-800	Transavia	dep TRA052
05. PH-DHC/S-9	DHC-2	SKHV	Gilze-formation
PH-TBR/B-182	AT-16ND	SKHV	Gilze-formation
07. EC-JQG	A330-202	Air Europa	arr AEA006
08. J-368	F-16BM	313sq	arr Tiger01
J-628	F-16AM	322sq	dep Cobra
J-871	F-16AM	322sq	arr Cobra
Q-13	AH-64DN	301sq	tst Redskin08
09. Q-13	AH-64DN	301sq	tst Redskin05
10. J-630	F-16AM	312/313sq	dep Tiger01
J-641	F-16AM	312/313sq	arr Tiger01
Q-13	AH-64DN	301sq	tst Redskin06
14. KAF308	Fokker 70	Kenya Air Force	arr
Q-13	AH-64DN	301sq	tst Redskin06
15. Q-13	AH-64DN	301sq	tst Redskin06
16. KAF308	Fokker 70	Kenya Air Force	tst
G-275	C-130H-30	336sq	*NAF71
VP-BQS	B737-8HX	ACG / Love Fly	dep
21. J-015	F-16AM	312sq	dep Tiger01
N-324	NH90-NFH	860sq	arr Neptune14
Q-13	AH-64DN	301sq	dep Redskin11
23. J-060	F-16AM	322sq	*Blade1
J-201	F-16AM	322sq	arr Blade2
S-454	AS532U2	300sq	*Demon3
25. D-102	CH-47D	298sq	*Viking5
28. J-065	F-16BM	322sq	*Rack
Q-17	AH-64DN	301sq	tst Redskin06

The October movements for Woensdrecht start with the calibrating Cessna 550 of the NLR and the single seat Hawker Hunter arriving from Leeuwarden. The Hunter performed some over flights related to the 75 years memorial of the Dutch liberation following World War 2. Due to bad weather the jet had to stay a little longer. Airbus F-HAAF arriving on the 4th was re-registered to OE-IEF later that month. The second Airbus that had arrived on the 4th was re-registered to OE-IEE later that month. The Air Europa A330 arrived on 7 October for storage at Fokker Aircraft Services. Various F-16, Apache and Chinook movements in between. Blade2 made an emergency landing on 23 October, while being escorted by Blade1. On 30 October another addition for KlasJet Lithuania arrived, this time a former ASL Ireland Boeing 737, previously known as EI-STA, still wearing full ASL Airlines colours upon arrival.

Credits: Johan Havelaar, Scramble MB.

## Texel

September 2019			
01. N748D	Beech 76	Ö. Satir	
06. PH-DTS	DA42	Wings over Holland	
07. 3A-MXC	AS355N	Heli Air Monaco	08
PH-PXZ	AW139	Nationale Politie	NCG04
08. PH-CGN	Do228-212	Kustwacht	NCG01
PH-DTS	DA42	Wings over Holland	
09. D-HANS	R44	Heli & Co	
PH-WRW	EC120B	Heli Holland Holland	
10. D-HOAE	H145	Wiking Helikopter Service	WHS2AE
12. PH-CGN	Do228-212	Kustwacht	NCG01
PH-DTS	DA42	Wings over Holland	
13. PH-CGN	Do228-212	Kustwacht	NCG03
PH-PXF	EC135P2+	Nationale Politie	ZXP06
PH-TWN	P2006T	Zelf Vliegen	
14. N143LA	PA-46-350P	Hannen	16
N955SH	PA-46-350P	Strutt	
16. PH-WTG	EC135P2+	HeliCentre	f/v
17. PH-PXZ	AW139	Nationale Politie	NCG04
19. G-BWTG	DHC-1	Classic Wings	
PH-WRW	EC120B	Heli Holland Holland	
20. PH-HGB	R44	HeliAir	
21. N195JR	Beech 95	Buddy Management	
PH-DTS	DA42	Wings over Holland	



Delivered to Deutsche BA in October 1997 as D-ADBM this Boeing 737 has been added to the rapidly growing fleet of KlasJet as LY-CHF. It was acquired from ASL Airlines Ireland where it had been in service as EI-STA since March 2010. (Woensdrecht, 30 October 2019, Johan Havelaar)



The Belgian counter part of the Dutch Coast Guard operates this Britten Norman BN-2B for a variety of tasks. OO-MMM was taken over from the Belgian Army in 2006 where it carried serial B-02. The aircraft also carries out tasks for the Belgian Federal Science Policy Office. During 2017 the aircraft received a repaint into these colours and large Coast Guard titles. (Texel, 24 October 2019, Mike de Bruijn)

22.PH-KFB	DA42NG	KLM Flight Academy	KLM7906	24.PH-MDG	Ce680+	Exxaero	XRO106/215
30.D-HANS	R44	Heli & Co		26.D-CAHO	Ce560XLS+	Air Hamburg	AHO475P/376E

October 2019

01.PH-DTS	DA42	Wings over Holland	*
05.PH-CGC	Do228-212	Kustwacht	NCG01
PH-RLA	Saab 91D	Stichting Levende Oude Luchtvaart	
07.PH-PXZ	AW139	Nationale Politie	ZXP26
08.PH-PXZ	AW139	Nationale Politie	ZXP26
14.PH-PXC	EC135P2+	Nationale Politie	ZXP03
PH-PXZ	AW139	Nationale Politie	ZXP26
16.PH-KGJ	EC120B	HeliFlight	
17.PH-PXB	EC135P2+	Nationale Politie	ZXP02
PH-PXC	EC135P2+	Nationale Politie	ZXP03
20.PH-KFA	DA42NG	KLM Flight Academy	
22.D-HANS	R44	Heli & Co	
PH-DKI	P68C	Zeeland Air	
PH-PXB	EC135P2+	Nationale Politie	ZXP02
PH-PXB	EC135P2+	Nationale Politie	ZXP02
PH-PXD	EC135P2+	Nationale Politie	ZXP04
23.N-227	NH90-NFH	860sq	*Tridend06
24.N-227	NH90-NFH	860sq	*Tridend02
OO-MMM	BN-2B-21	Belgian North Sea Aerial Surv.	BCG01
25.PH-PXD	EC135P2+	Nationale Politie	ZXP04
PH-PXD	EC135P2+	Nationale Politie	ZXP04
30.ST44	SF260D	CC Air	BAF195
G-275	C-130H-30	336sq	2x *Nasty81
PH-RLA	Saab 91D	Stichting Levende Oude Luchtvaart	
31.L-07	PC-7	131EMVOsq	Diamond09
G-CKUE	Spitfire LF XVI	G. van Eerd	

Credit: Texel Airport.

## Twente

October 2019			
02.CS-DXX	Ce560XLS	NetJets Europe	NJE833W/225A
PH-MDG	Ce680+	Exxaero	XRO529
03.OE-FHL	Beech C-90A	Airlink	JAR28
04.PH-MDG	Ce680+	Exxaero	XRO529/587
09.CS-DXU	Ce560XLS	NetJets Europe	NJE908E/077L
10.CS-DQB	Ce560XLS	NetJets Europe	NJE503G/647T
11.M-IFFY	Ce510	XEAD Aviation	
12.CS-DXU	Ce560XLS	NetJets Europe	13 NJE879U/611G
13.CS-PHJ	EMB505	NetJets Europe	NJE795C/805Y
D-HHTS	EC135P2	ADAC Luftrettung	*
D-IMRB	Beech C-90GTi	E-Aviation	EFD1B
PH-MDG	Ce680+	Exxaero	XRO615/457
15.CS-PHM	EMB505	NetJets Europe	NJE515W/327U
PH-HGT	Ce680+	Exxaero	XRO535
PH-MDG	Ce680+	Exxaero	22 XRO457/106
17.CS-PHL	EMB505	NetJets Europe	NJE174L/214H
PH-HGT	Ce680+	Exxaero	19 XRO535/517
18.D-CANG	Ce560XLS+	Air Hamburg	19 AHO475P
M-IFFY	Ce510	XEAD Aviation	
23.CS-PHJ	EMB505	NetJets Europe	NJE769C/137H

The ADAC helicopter on the 13th crossed runway 23 from Oldenzaal to Enschede.

Credit: EHTW spotters.

## Flamingo (Bonaire, Dutch Caribbean)

September 2019

01.HK-5255	Lj45	SARPA	
N31ZV	Lj31A	Ezair International	30
N389KA	Lj35A	Fundashon Mariadal	30
02.N876RA	Ce560XL	Parminter Investments	
YV3401	WW1124A		
04.N777YY	Lj60	Aerotruster Services Corp.	
05.N-110	NH90-NFH	860sq	
N-319	NH90-NFH	860sq	
N777YY	Lj60	Aerotruster Services Corp.	
06.HI1024	ERJ145MP	Sky High Aviation	
07.C-FEYG	DHC-8-311	Aruba Airlines (a/w)	f/v
HK-5255	Lj45	SARPA	08
08.N777YY	Lj60	Aerotruster Services Corp.	
09.PJ-IKA	PA-31-350		
13.HI1007	Beech 1900D	Sky High Aviation	
N-325	NH90-NFH	860sq	
14.HK-5255	Lj45	SARPA	15
N126KL	Lj55	Inversiones Lear 35	15
15.HK-4411	BAe3201	SARPA	
N212T	IAI1125SPX	Roche	
N2333K	CeU206G		
20.HI1053	ERJ145ER	Sky High Aviation	
21.HK-5255	Lj45	SARPA	22
PH-CGB	DHC-8-106	Caribbean Coast Guard	22
22.HK-4411	BAe3201	SARPA	
N777YY	Lj60	Aerotruster Services Corp.	23
25.PH-FBH	AW139	DCCG	
26.PH-FBH	AW139	DCCG	
27.HI1007	Beech 1900D	Sky High Aviation	
N356DC	Ce525B	Zephyr Air	30
PH-FBH	AW139	DCCG	
28.HK-4411	BAe3201	SARPA	29
N818ME	G-IVSP	Cape Clear	
29.HK-4803	BAe3201	SARPA	30
30.PH-FBH	AW139	DCCG	

### Air Antilles Express:

F-GPYF 01, 09<sup>2</sup>, 11<sup>2</sup>, 14<sup>2</sup>, 16<sup>2</sup>, 18<sup>2</sup>  
 F-OIXD 19<sup>2</sup>, 21<sup>2</sup>, 25<sup>2</sup>, 26<sup>2</sup>, 28<sup>2</sup>, 30  
 F-OIXE 03<sup>2</sup>, 05<sup>2</sup>, 07<sup>2</sup>, 13<sup>2</sup>, 15<sup>2</sup>, 29<sup>2</sup>  
 F-OIXH 02<sup>2</sup>, 04<sup>2</sup>, 08<sup>2</sup>, 10<sup>2</sup>, 12<sup>2</sup>, 17<sup>2</sup>, 20<sup>2</sup>, 22<sup>2</sup>, 25, 27<sup>2</sup>  
 F-OIXO 01<sup>2</sup>, 06<sup>2</sup>

### American:

N5007E 07 N9023N 21

N9006 14  
 N9018E 28  
Aruba Airlines:  
 C-FEYG 07, 08, 10, 12, 14, 15, 17, 19, 21, 22, 24, 26, 28, 29  
 C-FXLH 03, 05

Delta:  
 N683DA 28  
 N692DL 14  
TUI Airlines:  
 PH-TFK 24, 26, 28  
 PH-TFL 03, 05, 07, 13, 21, 27

United:  
 N14230 01 N38458 07<sup>2</sup>  
 N27477 21<sup>2</sup> N45440 28<sup>2</sup>  
 N37470 14<sup>2</sup>

Left out were KLM, Divi Divi Air (BN-2 and DHC-6) and EZ Air (BN-2 and Beech 1900) unless operating on a non-scheduled flight.

To start the month with a Venezuelan Westwind was promising. Two Dutch Navy NH90's on the 5th is quite unusual, even more because they made full stops from and to Curacao. From the 7th a fully white Dash-8 could be seen operating for Aruba Airlines as the leased CRJ went back to Canada on the 8th. Another NH90 later in the month, three different ones operating in the Caribbean now. Very limited US carriers in this time of the year, only flights in the weekend.

October 2019

01. N31ZV	Lj31	Ezair	23
N389KA	Lj35	Fundashon Mariadal	tdy
02. N876RA	Ce560XL	Parminter Investments	03
03. PH-FBH	AW139	DCCG	
04. HI1053	ERJ145ER	Sky High Aviation	
PH-FBH	AW139	DCCG	
05. HK-5255	Lj45	SARPA	06
07. YV3203	Beech C90GT		08
11. HI1052	ERJ145ER	Sky High Aviation	
HK-5139	B737-476(F)	AerCaribe	
12. HK-5255	Lj45	SARPA	13
17. N420LW	RC690B	PC Rental	19
18. HI1007	Beech 1900D	Sky High Aviation	
19. HK-5255	Lj45	SARPA	20
P4-CRA	CRJ200ER	Aruba Airlines	f/v
23. N31GJ	Lj36A	Global JetCare	
24. N559RA	Lj55C	Royal Air Freight	25

PZ-TFB	Fokker 70	Fly Allways
25. HI1007	Beech 1900D	Sky High Aviation
HK-5139	B737-476(F)	AerCaribe
N356DC	Ce525B	Zephyr Air
26. HK-5255	Lj45	SARPA
29. HK-5002	Beech C90B	MedicalFly Colombia

28  
27

Air Antilles Express:  
 F-GPYF 15<sup>2</sup>, 19<sup>2</sup>, 21<sup>2</sup>, 26<sup>2</sup>, 28<sup>2</sup>, 30<sup>2</sup>  
 F-OIXD 01, 03<sup>2</sup>, 05<sup>2</sup>, 07<sup>2</sup>, 10<sup>2</sup>, 12<sup>2</sup>, 14<sup>2</sup>, 24<sup>2</sup>, 27<sup>2</sup>  
 F-OIXE 01<sup>2</sup>, 04<sup>2</sup>, 08<sup>2</sup>, 11<sup>2</sup>, 17<sup>2</sup>, 22<sup>2</sup>  
 F-OIXH 02<sup>2</sup>, 06<sup>2</sup>, 09<sup>2</sup>, 13<sup>2</sup>, 16<sup>2</sup>, 18<sup>2</sup>, 20<sup>2</sup>, 23<sup>2</sup>, 25<sup>2</sup>, 29<sup>2</sup>

American:  
 N4005X 16<sup>2</sup>, 25  
 N4032T 17  
 N8001N 21, 23  
 N8030F 12  
 N8031M 04  
 N9002U 09, 11  
 N9004F 18  
 N9011P 07  
 N9015D 14  
 N9023N 19  
 N9029F 28, 30  
 N12028 05  
 N70020 26

Aruba Airlines:  
 C-FEYG 01, 03, 05, 06, 08, 10, 12, 13, 15, 17, 24, 26, 31  
 P4-CRA 19, 20, 22, 27, 29

Delta:  
 N670DN 12  
 N693DL 26  
 N6701 05  
 N6711M 19

TUI Airlines:  
 PH-TFK 03, 11, 17, 18, 22  
 PH-TFL 01, 05, 10, 12, 15, 19, 24, 26, 29  
 PH-TFM 04, 08, 25, 31

United:  
 N14230 26<sup>2</sup> N35204 12<sup>2</sup>  
 N24211 19<sup>2</sup> N35236 05<sup>2</sup>

Left out were KLM, Divi Divi Air (BN-2 and DHC-6) and EZ Air (BN-2 and Beech 1900) unless operating on a non-scheduled flight.

First noteworthy visitor was the Colombian Boeing on the 11th from Curacao to Bogota. On the 19th the first visit of a new Aruba Airlines CRJ and in full colors too. The 24th brought Fly Allways from Cali to Paramaribo. The next day the AerCaribe passed again to deliver transfer cargo for KLM. All in all, if it wasn't for all the ambulance flights, it would be very quiet on Bonaire. Fortunately there is a lot more to see and do on the island.

Credit: Danny de Kiewit.



Portuguese artist Joana Vasconcelos has used a former 1951 US Army Bell H-13E-BF Sioux for an artwork called Lilicoptère. The military serial for this helicopter was 51-13973 (msn 738). It was first shown at Château de Versailles in Versailles in 2012. (Rotterdam / Kunsthall, 6 October 2019, Berend Jan Floor)

# Movements Belgium



An arrival from Yekaterinburg via Charleroi Brussels-South at sundown. From June 2009 till March 2010 registration VQ-BIS belonged to a Global Express. The Airbus A320 on this photo received the registration in June 2018 when it was acquired by Meridian Air. (Brussels, 15 October 2019, Yannick van Praag)

## Antwerp

October 2019				D-ITTT	CeF406	Air Taxi Europe	
01. D-IAAT	EMB500	Arcus Air		N980EE	RC695	Egon Evertz	f/v 11
D-IFFF	CeF406	Air Taxi Europe	02	OO-STR	AS350B3	Stephex Stables	
D-IHUB	Ce525A	Sylt Air	02	09. 84-00165	C-12U-3	1-214th AVN	10
D-IPVD	Ce525A	Transavia		CS-CHE	CL-350	NetJets Europe	10
HB-IGV	Falcon 50EX	VF International		D-CSCA	Ce525B	Silver Cloud Air	10
N111QS	Global 5000	NetJets	f/v	D-IRUP	Ce551	R+P Flugcharter	
OO-STR	AS350B3	Stephex Stables		EC-GJM	SA227BC	Flightline	10
YU-BST	Ce525	Eagle Express	15	F-HGLG	Lj75	Ixair	
02. D-CAPB	Ce560	Aerowest		G-LUBB	Ce525	Surrey Heli Charters	
D-CHIC	EMB505	Air Hamburg		10. M-ARTY	PC-12/47E	Creston (UK)	
D-COZY	EMB505	Luxaviation Germany	f/v	OK-PCC	PC-12/47E	T-Air	11
D-IZZZ	Ce525	Tamsen Yachts	f/v	PH-KFA	DA42NG	KLM Flight Academy	
HB-IGV	Falcon 50EX	VF International	2x	11. D-IAAB	EMB500	Arcus Air	13
I-GAUS	P68	AFOC Germany	30	EC-GPS	SA227AC	Flightline	14
OK-PCC	PC-12/47E	T-Air		F-HGLG	Lj75	Ixair	
OO-ACC	Ce525A	Air Service Liège	04	LX-JFQ	PC-12/47	Jetfly Aviation	12
PH-VCC	DA62	Cav-Okay		M-IFFY	Ce510	Xead	
03. CS-DXO	Ce560XLS	NetJets Europe	04	N127QR	Beech 300LW	A. Ruijgrok	
D-CHIC	EMB505	Air Hamburg		OO-JOE	R44	J & G	
D-IPCH	Ce525A	Peter Cremer Holding		OY-NDP	Ce525A	Backbone Aviation	
HB-VVV	PC-24	Pilatus Flugzeugwerke	04	PH-KFA	DA42NG	KLM Flight Academy	
OE-GCZ	Ce525C	Avcon Jet	f/v	PH-LAW	CeT310R	AFOC Germany	
OO-GEE	PC-12/47E	Blue Sky Aviation	10	PH-TXA	Ce510	ASL	12 2x
OO-PCI	PC-12/47E	EAPC		12. D-CSCB	Ce560XLS+	Silver Cloud Air	13
OO-STR	AS350B3	Stephex Stables	2x	F-HFTV	Beech 200	Aero Sotravia	13
PH-KFA	DA42NG	KLM Flight Academy		OE-FZA	Ce510	GlobeAir	
04. CS-PHM	EMB505	NetJets Europe	05	OO-GEE	PC-12/47E	Blue Sky Aviation	
OK-SLN	ERJ135BJ	ABS Jets	2x	OO-HSA	AS355N	Heli Service Belgium	tdy arr
OO-PCN	PC-12/47E	EAPC		PH-LAU	Falcon 900EX	Exxaero	
OY-NDP	Ce525A	Backbone Aviation		PH-TXA	Ce510	ASL	15
OY-NNA	CL-850	Execujet Scandinavia	f/v 07	13. I-VICC	P68B	Aeronike	15
PH-HRK	P180	JetNetherlands		OO-GEE	PC-12/47E	Blue Sky Aviation	
PH-MYX	Ce650	JetNetherlands		OO-NEY	EMB545	Air Service Liège	16
05. F-HIDY	DA42	Astonfly	f/v	PH-HRK	P180	JetNetherlands	
OK-PCC	PC-12/47E	T-Air	06	PH-LAW	CeT310R	AFOC Germany	
OO-ACC	Ce525A	Air Service Liège		14. CH07	C-130H	20sq	
OO-ACO	Ce510	Air Service Liège	07	CS-DLJ	Falcon 2000EX	NetJets Europe	15
OO-NEY	EMB545	Air Service Liège		EC-GPS	SA227AC	Flightline	15
PH-LAW	CeT310R	AFOC Germany	06	LX-JFB	PC-12/47E	Jetfly Aviation	
PH-TXA	Ce510	ASL	06	M-ARTY	PC-12/47E	Creston (UK)	
06. OE-FGB	Ce525A	Jet Pool Network	19	OE-FZE	Ce510	GlobeAir	
OY-NDP	Ce525A	Backbone Aviation		15. 2-RBTS	Ce525B	Ortac	f/v 16
PH-HRK	P180	JetNetherlands		CS-DXV	Ce560XLS	NetJets Europe	
07. M-SAIL	PC-12/47E	G. Gordon	08	D-IATE	CeF406	Air Taxi Europe	16
N321CR	PA-46-350P	CS Air		D-IRUP	Ce551	R+P Flugcharter	
N919NE	Falcon 7X	Planet Nine	f/v 08	M-ARTY	PC-12/47E	Creston (UK)	17
OO-ACC	Ce525A	Air Service Liège	08	OO-ACC	Ce525A	Air Service Liège	16
PH-TXA	Ce510	ASL	11	PH-HRK	P180	JetNetherlands	
08. D-CSCA	Ce525B	Silver Cloud Air		PH-LAW	CeT310R	AFOC Germany	18
				YU-BTB	Ce550 Bravo	Air Pink	16
				16. CS-LTD	Ce680A	NetJets Europe	17

CS-PHF	EMB505	NetJets Europe		24.M-ARTY	PC-12/47E	Creston (UK)	
D-IRUP	Ce551	R+P Flugcharter		OE-IGL	Global 6000	Glock Aviation	f/v 25
HB-FVA	PC-12/47	Explorair	f/v 17	PH-TWN	P2006T	Zelf Vliegen	f/v
OE-FZD	Ce510	GlobeAir	18	SE-DJI	Falcon 7X	Industriflyg	f/v 25
OO-ACC	Ce525A	Air Service Liège	18	SE-MAD	DA42	Lamassu	f/v
OO-NEY	EMB545	Air Service Liège	17	T7-FOZ	Ce525 (M2)	Open Sky Aviation	27
OO-STR	AS350B3	Stephex Stables		25.CS-LAS	Ce680A	NetJets Europe	
PH-MYX	Ce650	JetNetherlands		F-GNSK	Beech 58	ENAC	f/v
17.D-CAWU	Ce560XLS	Adolf Würth	18	HB-LNX	PA-31T	Transwing	
D-IATE	CeF406	Air Taxi Europe	18	M-ARTY	PC-12/47E	Creston (UK)	
F-HNAV	Beech B200GT	DGAC		OK-SEM	Ce680	Smartwings	f/v
N4207X	CeF337F	Aceways	dep	OO-AAR	R44	Heli & Co	
OK-AST	Ce560XL	Air Bohemia	18	OO-ACO	Ce510	Air Service Liège	
OO-KBT	Bell 206L	Airborne		OO-PMP	R44	Modularte	
YU-BTB	Ce550 Bravo	Air Pink		26.D-EIHD	SV-4B	R. Cuypers	del
18.ST46	SF260D	CC Air		I-VICC	P68B	Aeronike	arr
CS-LTK	Ce680A	NetJets Europe		OO-ACC	Ce525A	Air Service Liège	
D-ASSY	Falcon 7X	Adolf Würth		PH-BBJ	Ce560XLS+	ASL	
F-GJCR	Beech E90	Dassault Aviation	f/v	PH-LAW	CeT310R	AFOC Germany	
HB-FVM	PC-12/47E	Leonardo Flyers		27.D-ICBA	Ce525A	Proair Aviation	
PH-MYX	Ce650	JetNetherlands		LX-JFA	PC-12/47E	Jetfly Aviation	
19.9H-GIO	Ce525	Luxwing	f/v	M-ARTY	PC-12/47E	Creston (UK)	
M-ARTY	PC-12/47E	Creston (UK)		OO-ACO	Ce510	Air Service Liège	30 2x
20.CS-LTI	Ce680A	NetJets Europe	22	28.CS-DOI	Ce525	Taespejo Portugal	f/v
I-VICC	P68B	Aeronike	tdy 24	29.HB-IGV	Falcon 50EX	VF International	30
OO-ACO	Ce510	Air Service Liège	22	LX-WJA	HA-420	Flying Group Luxembourg	
21.CS-CHC	CL-350	NetJets Europe		PH-KFB	DA42NG	KLM Flight Academy	
CS-LAS	Ce680A	NetJets Europe		PH-TSN	DA42	Twin Star Netherlands	
D-IATE	CeF406	Air Taxi Europe	22	30.CS-EJA	Ce560XLS	Executive Jet Management	f/v
D-ICBA	Ce525A	Proair Aviation		HB-VTS	Raytheon 390	Diamair	
EC-GXJ	SA226TC	Flightline	23	M-GFGC	P180	Greensill Capital	f/v 31
HB-IGV	Falcon 50EX	VF International		OO-STR	AS350B3	Stephex Stables	
OY-TWO	PC-24	Backbone Aviation		31.H29	A109BA	1w	
PH-TXA	Ce510	ASL	22	D-CANG	Ce560XLS+	Air Hamburg	
22.9H-GIO	Ce525	Luxwing	23	M-ARTY	PC-12/47E	Creston (UK)	
OK-PCC	PC-12/47E	T-Air	23	OO-AAR	R44	Heli & Co	
OO-ACO	Ce510	Air Service Liège		OO-ACO	Ce510	Air Service Liège	01
YU-FNR	Ce525	Eagle Express		OO-GEE	PC-12/47E	Blue Sky Aviation	
23.9H-GIO	Ce525	Luxwing	24	OO-PMP	R44	Modularte	
9H-VCN	CL-350	VistaJet Malta	f/v	PH-TSN	DA42	Twin Star Netherlands	
D-CAWU	Ce560XLS	Adolf Würth					
D-FABS	PC-12/47E	Schumacher Packaging					
EC-GXJ	SA226TC	Flightline	24				
HB-IGV	Falcon 50EX	VF International					
OO-SVA	SV-4B	F. Ceuppens					
PH-BBJ	Ce560XLS+	ASL	25				
PH-MYX	Ce650	JetNetherlands	25				

The Aceways Cessna on the 17th has been sold to Teuge based DEAC. The German registered Stampe & Vertongen arriving on the 26th is a new resident and scheduled to become OO-RAY.

Credits: ASA Belgium vzw, Luchtzak.be forum.



This former TUI Belgium Boeing 737 has been acquired by GOL and was photographed on the day it performed a local test flight, still registered as OO-JOS. (Brussels, 22 October 2019, Mathijs Clottens)

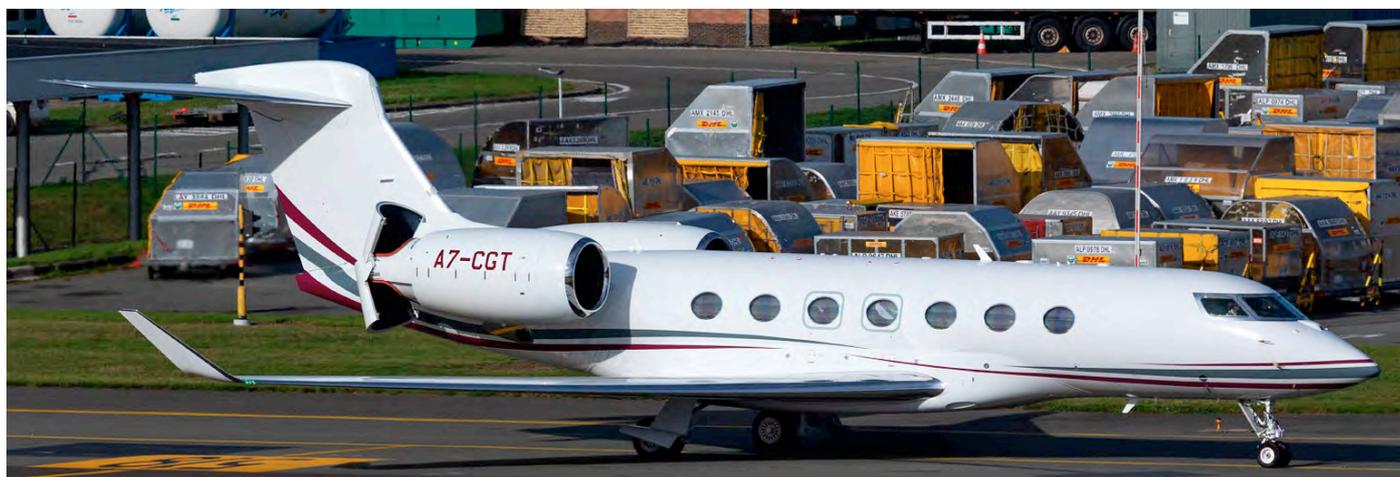


On the day this photo was taken Airbus A340 OO-ABB departed to France, to start an air cruise for the Safrans Du Monde organisation. The tour began on 26 October in Paris and ended on 16 November, again in Paris. (Brussels, 25 October 2019, Steven Picalausa)

## Brussels

October 2019			
01. 9H-MPW	B737-484	Air Horizont	JAF2182/218P
F-HLVN	A330-202	LEVEL	14 BOS17/8
OE-GXL	Ce560XL	Speedwings	02 SPG39
SU-GEY	A220-300	EgyptAir	MSR3330
03. D-AOLH	Fokker 100	Avanti Air	04 ATV3H/401G
D-CWAY	Lj55	Quick Air Jet Charter	
F-HXRG	Global XRS	Ondina Strategies	IXR503G
I-GBMP	G550	Alba Servizi	
LX-WJD	HDJT	Wijet	arr
N272BG	G550	Contrail Aviation	dep
N300A	G550	Exxon Mobil	dep
OE-GBH	EMB505	Tyrolean Jet Services	arr
OE-GXL	Ce560XL	Speedwings	SPG57
OM-BYA	A319-115X	Government of Slovakia	SSG4A
OO-MMT	Ce560XLS	Air Service Liège	
04. 9H-VCL	CL-350	VistaJet Malta	VJT418
N919NE	Falcon 7X	Planet Nine Private Air	dep
OE-GNP	Ce560XLS+	Fly Tyrol	05
P4-BFL	G450	Bestfly	BFY498R/9R
PH-BBJ	Ce560XLS+	ASL	
05. 5X-KDP	CRJ900	Uganda Airlines	06 div UR470
D-AOLH	Fokker 100	Avanti Air	06 ATV402G/3G
D-CAWK	Ce680A	Aerowest	
D-IAAB	EMB500	Arcus Air	06AZE12QQ/59QU
06. 9A-BTE	Fokker 100	Trade Air	09 CTN7312/TDR509
D-CAGA	EMB505	Luxaviation Germany	07
D-CAWK	Ce680A	Aerowest	
D-IANA	Beech B200	Euro Link	dep
LX-JFV	PC-12/47E	Jetfly Aviation	
N604GF	CL-604	TVPX ARS	15
OO-MMT	Ce560XLS	Air Service Liège	
PH-BBJ	Ce560XLS+	ASL	
YL-LDB	A321-211	SmartLynx Airlines	07 JAF264F/265F
07. 54+10	A400M	LTG62	
D-AOLH	Fokker 100	Avanti Air	08 ATV404G/008H
D-CAWK	Ce680A	Aerowest	
G-SMSM	Falcon 2000LXS	Luxaviation UK	arr
LX-WEB	Ce525B	Jetfly Aviation	08 JFA33E/81A
LX-WJD	HDJT	Wijet	08
N585DW	GLF5	Colleen Corp.	08
OH-TRG	PC-12/47E	Hendell Aviation	08
T7-FGL	Global 5000	ACASS Canada	
XA-CHG	G400	Operadora de Vuelos Ejecutivos	08
08. 54+10	A400M	LTG62	
CS-DLJ	Falcon 2000EX	NetJets Europe	NJE11M/94B
CS-PHA	EMB505	NetJets Europe	09 NJE388D/216A
D-CQAA	Lj45	Quick Air	QAJ1132
ES-SAO	A320-214	smartLynx Estonia	dep JAF250F
F-GGGA	Ce550	Valljet	arr
F-HFCS	BAe125-900XP	Valljet	arr
I-VITH	Beech 400A	Aliparma	
N651BA	G650ER	Bank Of America	09
YU-SCJ	Ce525	Prince Aviation	09 PNC9CJ
09. 258	MM62167		
	9H-JLG		
	CS-PHA		
	N458FX		
	N662GT		
	N887WH		
	OE-GDP		
10. 9A-BTE	Fokker 100		
D-CBBB	Ce560XLS+		
D-CDDD	Ce560XLS+		
D-CHRT	EMB505		
D-COLO	Ce525C		
LX-WEB	Ce525B		
OE-GBD	IAI1125SPX		
SP-TVZ	B737-8BK		
11. ZH889	Hercules C5		
9H-AGU	A330-322		
F-HRGD	ERJ145LU		
P4-KEB	B767-3KYEYR		
12. EI-RJU	BAe146-RJ85		
EI-RJY	BAe146-RJ85		
LX-WEB	Ce525B		
N508CK	G500		
N800J	G650ER		
13. 9A-BTE	Fokker 100		
D-CHRA	Ce525C		
F-HGPG	Ce525		
14. 900528	C-26D		
CS-LTE	Ce680A		
D-CCVD	Ce560XLS		
D-CFAF	Lj60		
F-GZTS	B737-73V		
LX-WEB	Ce525B		
N100HG	G-V		
N420PD	Falcon 900EX		
OE-FDT	Ce510		
OH-DEN	PC-12/47E		
P4-BFM	CL-605		
P4-KEB	B767-3KYEYR		
T7-FGL	Global 5000		
15. CS-DXY	Ce560XLS		
D-CAGA	EMB505		
D-CSAG	EMB505		
F-HLRX	Falcon 2000S		
N450CE	G450		
N807DC	Global XRS		
OE-FHK	Ce510		
OY-GFS	Falcon 2000LXS		
VQ-BIS	A320-232		
16. 145-209	ERJ135LR		
102004	Tp102C		
ZE701	BAe146 CC2		
900528	C-26D		
9H-WII	CL-604		
CS-PHJ	EMB505		
Lj45	102sq		
P180E	28° Gruppo Sqd		10 IEI2801
CL-350	TAG Aviation Malta		10 TEU12
EMB505	NetJets Europe		NJE770P/480Q
G450	Flexjet		10 LXJ458
B767-31AER	Atlas Air		GTI8244
Global XRS	Challenger Administration		dep
EMB505	Speedwings		SPG43
Fokker 100	Trade Air		CTN4456/7
Ce560XLS+	DC Aviation		DCS703
Ce560XLS+	DC Aviation		DCS713
EMB505	A. Schodl		11
Ce525C	Jetkontor		JKH32C
Ce525B	Jetfly Aviation		JFA57F/26C
IAI1125SPX	Tyrol Air Ambulance		arr
B737-8BK	Smartwings		TVS3442
Hercules C5	24/47sq		
A330-322	Hi Fly Malta		14 HFM441P/411P
ERJ145LU	Amelia International		dep
B767-3KYEYR	Air Astana		KZR573/4
BAe146-RJ85	CityJet		BCY66P/1013
BAe146-RJ85	CityJet		BCY1012/67P
Ce525B	Jetfly Aviation		13 JFA28F/63C
G500	Talon Air		arr
G650ER	Johnson & Johnson		arr
Fokker 100	Trade Air		14 TDR510/9510
Ce525C	E-Aviation		
Ce525	Valljet		14 VLJ66AP
C-26D	Naples AOD		
Ce680A	NetJets Europe		15 NJE953P/332B
Ce560XLS	Atlas Air Service		dep
Lj60	FAI Rent-A-Jet		arr
B737-73V	ASL Airlines France		11 FPO101T
Ce525B	Jetfly Aviation		15 JFA66B/31H
G-V	Harbour Group Industries		dep
Falcon 900EX	PPD Development		dep
Ce510	GlobeAir		15 GAC847J/677X
PC-12/47E	Fly7 Executive		
CL-605	Bestfly		15 BFY519R/26P
B767-3KYEYR	Air Astana		KZR573/6
Global 5000	ACASS Canada		
Ce560XLS	NetJets Europe		NJE563W/575P
EMB505	Luxaviation Germany		dep
EMB505	Sudzucker Reise		
Falcon 2000S	Michelin Air Services		
G450	Exec. Jet Management		18 EJM45
Global XRS			arr
Ce510	GlobeAir		GAC258Q/925V
Falcon 2000LXS	Air Alsie		arr
A320-232	Meridian Air		17 MMM9672/3
ERJ135LR	352 MMYP		arr
Tp102C	74 Airlift sq		18
BAe146 CC2	32(TR)sq		dep
C-26D	Naples AOD		17
CL-604	Jetflite		arr
EMB505	NetJets Europe		NJE673C/451R

F-HNAV	Beech 250	DGAC	17 Calibra	CS-LTG	Ce680A	NetJets Europe	NJE695C/713T
LX-TWO	Lj45XR	Luxemb. Air Rescue	LRQ737G	D-CPDC	M-28	PD Air Operation	
N100HG	G-V	Harbour Group Industries	arr	D-CTOR	EMB505	Luxaviation Germany	LXG550R
N533SF	G500	Service Electric Company	dep	F-HBZA	Ce550	Valljet	
OM-BYK	A319-115X	Government of Slovakia	18 SSG2	OE-ITC	G450	Luxaviation Germany	25 LXG14C
PH-WTC	Falcon 2000S	Cartier Europe	2x	OO-JOS	B737-7K5	TUI Belgium (GOL c/s)	tst JAF222K
Z3-MKD	Lj60	Government of Macedonia	17	PH-STB	Falcon 900C	Exxaero	
17.C-168	CL-604	Esk 721		23.146/XR	TBM-700A	ET00.041	
68/F-RAFA	Falcon 7X	ET00.060	arr	MM62244	Falcon 900EX	93° Gruppo TS	
606	Falcon 7X	MH 59. Sz.D. R	arr HUAF660	09-001	G550	VIP Flt.	25
MM62209	A319-115X	306° Gruppo TS	18	10-0214	C-17A	437th AW	arr
06	C-27J	Transporto Esk	arr	CS-DXN	Ce560XLS	NetJets Europe	
L1-01	Falcon 2000EX	Slovenian Air Force	arr LSV101	D-ITAN	Ce525	E-Aviation	
T.18-2/45-41	Falcon 900B	451 Esc	arr	N211HS	G650	UMB Bank NA	24
ZE700	BAe146 CC2	32(TR)sq	arr	N585DW	GLF5	Colleen Corp.	24
9A-CRO	CL-604	Government of Croatia		N7600G	Falcon 2000EX	SAS Institute	24
9H-VFF	CL-605	VistaJet Malta	18 VJT551/001	N850SF	TBM-850	Schnefrost	dep
F-HLRX	Falcon 2000S	Michelin Air Services		OO-NGI	ERJ190BJ	Flying Group	arr
F-HNAV	Beech 250	DGAC	tdy 20 Calibra	SP-LWF	B737-86N	LOT Polish Airlines	f/v LOT235/6
G-MATO	Falcon 7X	Air Charter Scotland		24.5105	CL-601-3A	241.dlt	arr
G-SDRY	Ce525C	Flightpartner		C-215	CL-604	Esk 721	25
I-PBRA	Falcon 50EX	Sirio	SIO505	93/XL	TBM-700A	ET00.060	arr
I-TOPH	BAe125-850XP	Sirio		15+01	A319-115X	FBS BMVg	dep
LZ-OOI	Falcon 2000	Government of Bulgaria	18 BGF4	135L-484	ERJ135BJ	352 MMYP	25
N282CC	G280	Cummins		606	Falcon 7X	MH 59. Sz.D. R	25
N878SC	Global 6000	The Whitewind Company	arr	L1-01	Falcon 2000EX	Slovenian Air Force	arr
OE-GDP	EMB505	Speedwings	SPG621	013	C295M	8.BLTr (13.el)	arr
18.406	AN26	HUAF	19	D-BLUE	Falcon 2000LX	ACM Air Charter	25 BVR222
9H-AEJ	A319-112	Air Malta	AMC996	G-GLOB	Global XRS	ExecuJet UK	
C-GOIF	A321-271NX	Air Transat	f/v TSC154/5	LX-JNC	Global XRS	Luxaviation	25 LXA21V
F-HAOD	Falcon 900LX	Olivier Dassault	19 DSO180D	LX-WJA	HA-420	Wijet	
OE-FDT	Ce510	GlobeAir	GAC492P/369X	OM-BYA	A319-115X	Government of Slovakia	SSG4
UR-WRW	A320-214	Windrose Airlines	AUI145/6	OO-DFG	Falcon 2000LX	Luxaviation Belgium	arr
UR-WRW	A320-214	Windrose Airlines	UKN5407/8	OO-LMP	Falcon 2000LX	Luxaviation Belgium	arr
19.D-CPMU	Lj60	FAI Rent-A-Jet		OO-MLG	Ce560XL	Luxaviation Belgium	dep
OE-FOE	Ce510	GlobeAir	20	OO-WEG	CL-350	Luxaviation Belgium	dep
OE-FZE	Ce510	GlobeAir	GAC503N/381R	OY-FFI	Falcon 7X	ExecuJet Scandinavia	2x VMP888
PH-STB	Falcon 900C	Exxaero	dep	VP-BBI	G280	Silk Way Business Avn	26 ESW280
20.D-CFAF	Lj60	FAI Rent-A-Jet		25.14+02	Global 5000	FBS BMVg	arr
F-HJBR	EMB505	CASAM		MM62244	Falcon 900EX	93° Gruppo TS	arr
OO-ABB	A340-313E	Air Belgium	25 ABB320P/201P	0220	M-28B/PT	8.BLTr (12.el)	dep
OY-CKK	Falcon 2000LXS	Air Alsie		L1-01	Falcon 2000EX	Slovenian Air Force	
OY-GFS	Falcon 2000LXS	Air Alsie		9H-VJE	Global 6000	VistaJet Malta	VJT741
PH-STB	Falcon 900C	Exxaero	arr	A7-CGT	G500	Qatar Executive	26
SP-ARK	Falcon 2000S	Magellan Pro Service	22	CS-LTG	Ce680A	NetJets Europe	NJE434E/605C
21.9H-JDV	Ce525 (M2)	NextGen Aviation (Malta)		CS-LTK	Ce680A	NetJets Europe	NJE4ZN/894D
9H-VJZ	Global 6000	VistaJet Malta	VJT981	CS-PHH	EMB505	NetJets Europe	NJE801U/225A
M-MEVA	Ce560 Ultra	Marcus Evans (Aviation)	22	D-CSAG	EMB505	Sudzucker Reise	
N316VB	G-IVSP	Living Word Christian Center	23	D-CXLS	Ce560XLS+	Air Hamburg	26 AHO552M/397J
OE-FHK	Ce510	GlobeAir	GAC782Y/209N	D-IOHL	Ce525A	Excellent Air	
OE-FZB	Ce510	GlobeAir	GAC500G/499Y	F-HVYC	Ce560XLS+	Lyreco	
OE-GKW	G100	Tyrol Air Ambulance		OE-FCB	Ce510	GlobeAir	GAC569C/434S
OE-ITC	G450	Luxaviation Germany	LXG14C	OE-FOG	Ce510	GlobeAir	arr
OO-JOS	B737-7K5	TUI Belgium (GOL c/s)	arr JAF77P	OK-EMA	Ce680	Smartwings	TVS1085/3J
22.02-01863	C-37A	USAPAT	arr	26.EC-MXJ	A320-214	Gowair (a/w)	TFL545P/1757
9H-VFC	CL-605	VistaJet Malta	23 VJT582	ES-SAO	A320-214	smartLynx Estonia	-/JAF1013



Jesse Vervoort was able to get the latest addition for Qatar Executive on photo when it visited Brussels. It is believed that Gulfstream G500 A7-CGT was delivered in September 2019.



EgyptAir received three A220s in October via a delivery flight through Europe. Not all aircraft were delivered in full colours. SU-GFA was one of two aircraft being delivered via Ostend with the first being in full colours. Unfortunately the second aircraft on this photo was all white. (Ostend, 27 October 2019, Nik Deblauwe)

ES-SAO	A320-214	smartLynx Estonia	27 JAF1014/1415
OH-DEN	PC-12/47E	Fly7 Executive	
PR-JJR	Falcon 2000LX	Rio Bonita Comunicaçao	30
27.9H-AGU	A330-322	Hi Fly Malta	arr IBK8995
ES-SAO	A320-214	smartLynx Estonia	JAF1416/705F
PH-DWS	ERJ135LR	Air Charters Europe	29 JNL487/638
YL-LCO	A320-214	SmartLynx Airline	JAF700F/3117
YL-LCO	A320-214	SmartLynx Airline	JAF3118/671F
28.F-HSBL	EMB500	Pan Européenne A/S	
HB-FWC	PC-12/47E	TAG Aviation	29
RA-09600	Falcon 900LX	Gazpromavia	GZP9637/8
RA-09607	Falcon 7X	Gazpromavia	GZP9611/2
29.CS-PHN	EMB505	NetJets Europe	NJE60P/556L
D-IOHL	Ce525A	Excellent Air	dep
D-ISAR	Raytheon 390	Euroflug Frenzel	
F-HEVL	EMB505	Evolem Aviation	EVL291/2
G-LEGC	ERJ135BJ	Luxaviation UK	
PR-GEQ	B737-7K5	GOL	dep
YU-BNA	Falcon 50	Serbian Government	
YU-SPB	Ce560XLS	Air Pink	
Z3-MKD	Lj60	Government of Macedonia	30
30.18-0093	A400M	221 Filo	
A6-BND	B787-9	Etihad Airways	f/v ETD57/8
C-GDPF	Global XRS	Execaire	31
CS-DXK	Ce560XLS	NetJets Europe	31 NJE847F/248L
CS-LTL	Ce680A	NetJets Europe	NJE501Q/039H
D-IAWG	Ce425	Aerowest	arr
F-HANE	P180	Oyonnair	
F-HOLY	AW109SP	Skycam Helicopteres	arr
LX-JFA	PC-12/47E	Jetfly Aviation	dep
LX-ONE	Lj45	Luxemb. Air Rescue	LRQ768H
PH-DWS	ERJ135LR	Air Charters Europe	JNL638
31.D-AOLG	Fokker 100	Idealtours	ATV301G/032G
D-CHRD	Ce680	Hahn Air	HHN30D
D-CRON	Ce560XLS	Silver Cloud Air	01 SCR762
D-IGST	Raytheon 390	Peak Air	
F-HJMA	ERJ135BJ	Madar Aviation	
LX-JFE	PC-12/47E	Jetfly Aviation	dep
UR-WRJ	A321-231	Windrose Airlines	UKN5411/2

LEVEL took delivery of a new Airbus on the 1st. The aircraft was ferried from Toulouse to Brussels for post delivery work and continued to Orly on the 14th. Also on the 1st an EgyptAir A220 on delivery. Uganda Airlines ferried two new Canadiarjets, 5X-KDP and 5X-KNP, to Africa via Europe on the 5th. 5X-KDP did not make the Maastricht airport curfew and diverted to Brussels. "KDP" in the registration stands for Kidepo National Park. The SmartLynx Airbus on the 6th arrived from Charleroi after its lease to TUI Belgium. It departed to Hamburg the next day. On the 8th another SmartLynx Airbus departed after its lease to TUI Belgium. The Red Devils were transported to Astana by Air Astana on the 11th. The team returned in the early hours of the 14th. The ASL Boeing on the 14th was a maintenance customer. The Air Malta Airbus on the 18th was ferried to the UK for disposal via Brussels. A former TUI Boeing returned from Norwich in

GOL colourson the 21st. It performed a local test flight the next day. On the 27th a Smartlynx Airbus arrived for lease to TUI Belgium. It was ferried to Charleroi that same day after having operated a service from Brussels. Former OO-JOS departed to Brasil on the 29th. The Etihad Airways dreamliner on the 30th carries special Manchester City colours.

Credits: Luchtzak forum, planespotters@BRU Facebook group, Scramble forum.

### Kleine Brogel

			October 2019
01.1257	Yak-40K	241.dlt	
02.CH11	C-130H	20sq (special c/s)	*
	FA84	F-16AM	2w
	G-273	C-130H-30	336sq
03.CH11	C-130H	20sq (special c/s)	*
	G-275	C-130H-30	336sq
04.CH13	C-130H	20sq	*
07.CH13	C-130H	20sq	*
08.CH11	C-130H	20sq (special c/s)	*
	H21	A109BA	17sq/1w
	ST42	SF260D	CC Air (grey c/s)
09.CH04	C-130H	20sq	*
	CH07	C-130H	20sq
	FA121	F-16AM	2w
	ST44	SF260D	CC Air (grey c/s)
10.OO-XVI	Spitfire LF16E	Vintage Fighter Aircraft	
14.CH07	C-130H	20sq	*
	PH-LAB	Ce550	NLR – TU Delft
15.CH04	C-130H	20sq	*
	CH07	C-130H	20sq
	FA101	F-16AM	2w (demo c/s)
	LX-N90448	E-3A	NAEW&CF
17.CH01	C-130H	20sq	*
	ST46	SF260D	CC Air (grey c/s)
24.LX-N90446	E-3A	NAEW&CF	*
25.ST34	SF260M+	CC Air (Red Devils c/s)	*
28.CH11	C-130H	20sq (special c/s)	*
	ST02	SF260M+	CC Air
30.ST46	SF260D	CC Air (grey c/s)	*
31.CE02	ERJ135LR	21sq	*
	ST34	SF260M+	CC Air (Red Devils c/s)

Following the excitement of the Sanicole Airshow 2019 Klein Brogel traffic returned to normal in October. The Czech Air Force Yak-40 on the 1st might be one of the last visits of this type.

Credits: Rik Brebels, Mathias Bijmens, Toon Cox, Quinn Loots.

### Koksijde

			October 2019
02.FA84	F-16AM	2w	2x *
	FA127	F-16AM	10w
	ST44	SF260D	CC Air
03.FA68	F-16AM	2w	*

FA81	F-16AM	10w	*
273	B-Hunter	80UAVsq	
04.ST46	SF260D	CC Air (grey c/s)	2x *
08.H46	A109BA	17sq/1w	3x *
10.1x	F-16AM	2w	*
FA135	F-16AM	2w	*
11.N-227	NH90-NFH	860sq	*
14.ST44	SF260D	CC Air	2x *
15.CH04	C-130H	20sq	7x *
ST46	SF260D	CC Air (grey c/s)	2x *
16.G-275	C-130H-30	336sq	2x *
PH-NLR	Ce550	NLR - TU Delft	
17.CH01	C-130H	20sq	9x *
CH04	C-130H	20sq	3x
FA114	F-16AM	10w	2x *
FB17	F-16BM	10w/OCU	7x *
ST46	SF260D	CC Air (grey c/s)	2x *
18.G-781	C-130H	336sq	*
24.FB14	F-16BM	10w/OCU	2x *
FB24	F-16BM	10w/OCU (spec mks)	*
25.1x	NH90-TTH	18sq/1w	*
FB20	F-16BM	10w/OCU	3x *
ST41	SF260D	CC Air	2x *
ST44	SF260D	CC Air	*
RN06	NH90-TTH	18sq/1w	*

The traffic for Koksijde during October 2019 does not hold very special visitors. Noteworthy are the two Belgian NH90-TTHs on the 25th. These two were heading to the UK for training purposes.

Credits: Wim Houquet, Mike Derijcke, Filip Candaele, Christopher Noens, Niels De Ruyck, Ruben Theuninck, Kenny Plattevoet, Davy Lucidarne.

## Liège

October 2019			
01.EC-MFS	B737-4Y0	AlbaStar	LAV7781/TRA76
02.EC-MFS	B737-4Y0	AlbaStar	TRA75/LAV7782
03.SE-RFL	Ce680	Europ. Flight Service	dep EUW5224
04.F-GZTZ	B737-8K5	ASL Airlines France	FPO4QJ/894F
05.A7-BFR	B777-F	Qatar Airways	f/v QTR8261
07.84-0126	C-21A	76th AS	arr Valor42
08.F-HLRS	EMB505	Air Vendee	
10.OK-RAH	Beech 400XT	Time Air	
11.160/ABV	TBM-700B	EAAT	
12.LX-FPF	Ce525B	Flying Group	arr
OE-FDT	Ce510	GlobeAir	GAC445E/F
SP-ESB	B737-8Q8	Enter Air	ENT54GC/56RM
13.OO-PKX	Ce750	Air Service Liège	14
14.D-CURT	Lj31A	Air Alliance Express	
F-HMAU	EMB500	Lei Moa	
15.ES-SAK	A320-214	TUI Belgium	15 JAF1772/421P
LX-FPF	Ce525B	Flying Group	dep
16.F-HBMR	Ce550	Valljet	
F-HMML	EMB505	Synair	

PH-DWA	ERJ145LR	Air Charters Europe	dep
17.84-0087	C-21A	76th AS	arr Valor42
F-HMML	EMB505	Synair	arr
18.G-SHUI	Ce680A	Air Charter Scotland	EDC16E
OE-FDT	Ce510	GlobeAir	GAC369X/258Y
SP-ENQ	B737-85R	Enter Air	ENT51HD/56TF
21.ES-PWA	AW139	Piirivalve Lennusalk	arr
HB-ALR	ATR72-212(F)	Zimex Aviation	
PH-MFX	Ce650	JetNetherlands	
24.D-IDAZ	Ce525	Donau Air Service	
UR-CKM	An-12BP	Cavok Air	arr
25.G-CLAA	B747-446F	CargoLogicAir	CLU409/10
26.UR-CEZ	An-12BP	Cavok Air	27 CVK7033/4
28.EC-MSC	Global 6000	Mercadona	
LX-VCM	B747-8R7F	Cargolux	div CLX4327
29.EC-MPN	Ce525	Air Taxi & Charter International	
30.EC-MPN	Ce525	Air Taxi & Charter International	
31.N44JC	Falcon 2000LXS	J.M. Cox Resources	03
N476MC	B747-47UF	Atlas Air	01 GTI8529

AlbaStar operated a football charter for Napoli playing in Genk on the 1st. During the match the aircraft operated a flight for Transavia. Standard Liège returned on the 4th after playing against Arsenal. The TUI Airbus on the 15th was a Charleroi diversion. The Cargolux on the 28th was a Luxembourg diversion.

Credits: Luchtzak.be forum, flymst.nl forum, flightaware.com.

## Ostend-Bruges

October 2019			
01.EC-GJM	SA227BC	Flightline	FTL912/921
LY-FLT	B737-522	KlasJet	02 KLJ6117/8
LZ-EAA	A320-231	Enter Air	ENT53RU/55SX
OE-FIT	Ce510	GlobeAir	02 GAC259R/340N
OO-SSG	A319-112	Brussels Airlines	BEL9937/1067
SP-ENV	B737-8BK	Enter Air	dep ENT52FK
02.HB-GLB	Beech B200	Swiss Flight Service	
LZ-EAA	A320-231	Enter Air	ENT51PX/55HT
OO-SSC	A319-112	Brussels Airlines	BEL1064/9936
OO-TCH	A320-214	Brussels Airlines	BEL1068/9934
SP-ENV	B737-8BK	Enter Air	ENT52WD/77WH
03.ER-JAI	B747-412(F)	Aerotrans Cargo	04 ATG4488/9
OO-CFW	PC-12/47E	NextGen Aviation	
OO-WGW	AS350B3	Heli & Co	
RA-82077	An-124-100	Volga Dnepr	dep VDA2340
UR-CZZ	An-12BP	Ukraine Air Alliance	04 UKL4047/51
04.D-BFIL	EMB545	Atlas Air Service	ATL8F
D-CMHA	Do328-110	MHS Aviation	MHV751/351
D-ITTT	CeF406	Air Taxi Europe	dep TWG155
EC-JIP	SA226TC	Flightline	FTL522/553
ER-JAI	B747-412(F)	Aerotrans Cargo	ATG4490/1
LY-FTL	B737-522	KlasJet	KLJ6121/22
05.D-CMHA	Do328-110	MHS Aviation (a/w)	MHV352/752
06.D-ASBG	Falcon 900EX	Airservice Bremgarten	



Electra Airways acquired this Airbus A320 in July 2017. LZ-EAA was leased to Enter Air in the summer of 2018. During the winter season it was returned to Electra Airways. From April 2019 the Airbus was again leased to Enter Air for the summer of 2019 until 1 November 2019 when it was returned to Electra Airways again. (Ostend, 2 October 2019, Nik Deblauwe)

N739MA	B737-8Q8	Miami Air	BSK1833	ER-JAI	B747-412(F)	Aerotrans Cargo	25 ATG4455/7
OO-JWB	PC-12/47E	NextGen Aviation	07	N425ST	Ce550	F.S. Aviation	
OO-WGW	AS350B3	Heli & Co		OY-FFI	Falcon 7X	Execujet Europe	tst VMP888
07.65/F-YSBA	EMB121AN	28F	FN5086	25.D-AIPB	A320-211	Lufthansa	arr DLH9922
092/YL	EMB121AA	EAT00.319		26.OO-JCV	PC-12/47E	NextGen Aviation	
D-CITA	Lj60	FAI-Flight Ambulance	IFA1508	27.9H-JDV	Ce525(M)	NextGen Aviation (Malta)	arr
OO-JWB	PC-12/47E	NextGen Aviation	08	SU-GFA	A220-300	EgyptAir (a/w)	f/v MSR3330
08.CH11	C-130H	20sq (special c/s)		28.M-NGNG	G650	Infinity Sky	29
D-IAAS	EMB500	Arcus Air	AZE41QR/42QR	PH-NNX	Ce750	JetNetherlands	arr
EC-GJM	SA227BC	Flightline	FTL942/922	29.D-CBBB	Ce560XL	DC Aviation	DCS703
N461GT	G450	Deeside Trading	14	D-IGWT	Ce525A	Sylt Air	AWU729G/ -
OO-JWB	PC-12/47E	NextGen Aviation	09	EC-JIP	SA226TC	Flightline	arr FTL72G
PH-NNX	Ce750	Jet Netherlands	10	N194ER	Ce510	Blue Sky Aviation	
09.9H-JDV	Ce525 (M2)	NextGen Aviation (Malta)	10	OO-PCI	PC-12/47E	EAPC	
C-FXLH	CRJ200LR	Voyageur Airways	10 VAL200	T7-OIL	G200	Avcon Jet	31
ER-JAI	B747-412B(F)	Aerotrans Cargo	10 ATG4428/9	30.D-CURT	Lj31A	Air Traffic	AYY102
G-VCML	Beech 58	St.Angelo Aviation		D-IAWG	Ce425	Aerowest	
OO-JWB	PC-12/47E	NextGen Aviation		ER-JAI	B747-412(F)	Aerotrans Cargo	31 ATG4459/60
10.D-IATE	CeF406	Air Taxi Europe	11 TWG121/221	N194ER	Ce510	Blue Sky Aviation	
EC-GPS	SA227AC	Flightline	FTL832/841	N616CM	TBM-850	Dataspace UK	31
M-ARTY	PC-12/47E	Creston (UK)		31.ER-JAI	B747-412(F)	Aerotrans Cargo	arr ATG4461
N178HT	Global 6000	Haitian Plastics Machinery Group	13	F-HMAU	EMB500	Lei Moa	
N355EE	EMB505	Embraer USA		G-FXER	Nextant 400XTi	Sirio UK	FLJ51/52
OO-CFW	PC-12/47E	NextGen Aviation		T7-OIL	G200	Avcon Jet	arr
11.CS-EPE	Falcon 2000LX	EJME (Portugal)	JME220E	TS-ICA	B737-330(QC)	Express Air Cargo	f/v XRC9001
OE-GDP	EMB505	Speedwings	13 SPG043				
13.9H-JDV	Ce525(M)	NextGen Aviation (Malta)					
C-GOHB	Falcon 2000LX	Starlink Aviation					
N616CM	TBM-850	Dataspace UK					
OE-FMK	Ce501	Mali Express	14 MAE370/1				
OY-NPG	SA227DC	North Flying	14 NFA101P/101				
14.D-BFIL	EMB545	Atlas Air Service	ATL8F				
D-ITTT	CeF406	Air Taxi Europe	TWG255/155				
HA-TAB	Saab 340A(F)	Fleet Air	FRF100/101				
OY-NPG	SA227DC	North Flying	NFA101/101P				
15.D-ISAR	Raytheon 390	Euroflug Frenzel					
PH-NNX	Ce750	JetNetherlands	16				
RA-82043	An-124-100	Volga Dnepr	17 VDA2261/2416				
17.9H-JDV	Ce525(M)	NextGen Aviation (Malta)					
CS-DUB	BAe125-750	NetJets Europe	NJE222N/ -				
D-ICCC	CeF406	Air Taxi Europe	TWG161/261				
ER-JAI	B747-412(F)	Aerotrans Cargo	18 ATG4462/39				
PH-NNX	Ce750	JetNetherlands	18				
18.CS-LAU	Ce680A	NetJets Europe	NJE059F				
M-CLAB	CL-300	Shamrock Trading	20				
N999YY	G650ER	Jay Aviation					
19.9H-JDV	Ce525 (M2)	NextGen Aviation (Malta)	21				
CS-LTC	Ce680A	NetJets Europe	20 NJE497W/813P				
20.G11	MD902	Federale Politie					
N165SL	P180	AGCT	dep				
N165SL	P180	AGCT	24				
SU-GEZ	A220-300	EgyptAir	f/v MSR3330				
21.9H-AHA	B737-505	Air X Charter	23 AXY2101/2				
OO-CFW	PC-12/47E	NextGen Aviation					
F-HRAP	ERJ145LI	Amelia Int'l	24 AEH961/050T				
PH-NNX	Ce750	JetNetherlands	24				
XA-KUO	G-V	Aeropycsa					
22.G10	MD902	Federale Politie					
9H-AGV	Lj40	Pontair	PTA14P/24				
LX-MIC	Falcon 2000S	Global Jet Luxembourg					
23.D-ATUJ	B737-8K5	TUIfly	f/v 24 TUI8988/9				
HA-TAD	Saab 340A(F)	Fleet Air	FRF201/202				
24.EC-GJM	SA227BC	Flightline	FTL932/951				
EC-MXJ	A320-214	Gowair (a/w)	f/v TFL521P/1801				

EgyptAir Cargo:

SU-GCE 03, 10, 17, 20, 31

SU-GCJ 06, 13, 24, 27

TUI Belgium:OO-JAF 01 – 05, 08<sup>2</sup>, 09, 10, 10<sup>2</sup>, 27<sup>2</sup>, 28 – 31OO-JAL 02 - 14, 14<sup>2</sup> OO-JEB 25

OO-JAQ 11 – 16 OO-JEM 13, 21

OO-JAS 14<sup>3</sup>, 16, – 27, 30, 31 OO-JVA 14, 25, 26OO-JAV 15<sup>2</sup>, 16 – 22, 26, 27, 28, 30 OO-TEA 07, 25OO-JAY 08<sup>2</sup>, 09 OO-TNB 20, 22<sup>2</sup>, 23, 24, 25OO-JBG 25<sup>2</sup> OO-TUV 01, – 08, 22<sup>2</sup>, 23

Again a rather bussy month for Ostend with football charters. On the 1st Enter Air operated two charters related to the Real Madrid - Club Brugge football game. The Brussels Airlines Airbus on the same day was related to the same game. KlasJet operated a charter for the Oleksandria - AA Gent game on the 2nd. The two Brussels Airlines aircraft and Enter Air were related to the previously mentioned Real Madrid - Club Brugge football game. The Heli & Co helicopter on the 3rd carried FIA World Rally decals. On the 6th a Miami Air for a fuel stop. The Embraer on the 10th was a training flight. The Voyageur Canadairjet on that day previously operating for Aruba Airlines was ferried through Ostend with the United Nations decals. The EgyptAir A220 on the 20th was not only a delivery flight but also the first visit of this 'type' of aircraft. Air X and Amelia International (renamed from Aero4M) both operated charters on the 21st in relation to the Club Brugge - PSG football game. TUIfly operated a charter for the AA-Gent - Wolfsburg game on the 24th and the Falcon 7X on that same day used the airport for some local test flights before returning to Brussels. On the 25th a Lufthansa Airbus arrived for disposal by aircraft dismantling company Aerocircular. A second A220 for EgyptAir was ferried through Ostend on the 27th but this aircraft was all white.

Credits: Replo.be. Nik Deblauwe, Andre Deblauwe.



Although founded in 2015 Tunisian freighter operator Express Air Cargo operated its first commercial flight between Tunis and Paris Charles de Gaulle on 25 February 2017. Boeing 737 TS-ICA was delivered to the company in January 2017. (Ostend, 31 October 2019, Nik Deblauwe)

# Military Movements Elsewhere



Eurofighter 30+47 of TLG73 is one the six German fighter aircraft which took part of the Cobra Warrior exercise at Waddington (4 September 2019, Martin Uleman)

## Germany

Geilenkirchen		September 2019	
02.D-AOLG	Fokker 100	Avanti Air	TAY595/5090
	B737-49R	ASL Airlines Belgium	TAY502/5017
03.D-HLTF	EC155B	Bundespolizei	* BPO121
	EC120	Bundespolizei	* BPO29
04.63-7992	KC-135R	153rd ARS MS ANG	dep RCH697
05.62-3572	KC-135R	117th ARS KS ANG	18 RCH211
	AS332L1	Bundespolizei	* BPO105
09.T-264	KDC-10	334sq	20 NAF40/44
	KC-135R	121st ARW OH ANG	13 RCH616/163
	KC-135R	121st ARW OH ANG	24 RCH163/405
	Fokker 100	Avanti Air	TAY783/742
12.44+70	Tornado IDS	TLG33	* Bomber
	C-12U-3	E/1-214th AVN	* Duke85
	UH-60M	A/1-214th AVN	
13.D-ANSK	CRJ-200LR	Pro Air Aviation	TAY5091/629
	B737-4MO	ASL Airlines Belgium	TAY5018/749
16.59-1467	KC-135T	171st ARW PA ANG	30 RCH553
	KC-135R	121st ARW OH ANG	20 RCH405/616
	AS332L1	Bundespolizei	BPO22
18.D-HEGD	AS332L1	Bundespolizei	BPO6
23.62-3506	KC-135R	117th ARS KS ANG	RCH449
	KC-135R	117th ARS KS ANG	RCH564
	AS332L1	Bundespolizei	
25.D-HEGZ	AS332L1	Bundespolizei	BPO6
	EC155B	Bundespolizei	* BPO520
	EC155B	Bundespolizei	* BPO22
26.041	Falcon 20ECM	717Skv	NOW717D
	M-28B/PT	8.Bltr	PLF244
30.D-AOLH	Fokker 100	Avanti Air	TAY788/5015
	B737-49R	ASL Airlines Belgium	TAY5078/501

Credits: Rolf Flinzner, Scramble messageboard.

Nürnberg		September 2019	
03.54+25	A400M	LTG62	GAF046
	UC-35A	E/1-214th AVN	Duke60
06.54+25	A400M	LTG62	GAF048
	UH-1D	THR30	* Joker10
10.72+32	UH-1D	THR30	* Joker94
11.73+74	UH-1D	THR30	* Duke70
	UH-60A	C/1-214th AVN	* Army26707
	UH-60L	A/2-1st AVN	* Army72098
	UH-72A	JMRC	Duke62
12.84-00156	C-12U-3	E/1-214th AVN	

13.07-8608/RS	C-130J-30	37th AS	14 Herky607
	C-130J-30	37th AS	14 Herky606
16.73+45	UH-1D	THR30	- Joker10
	C-12U-3	E/1-214th AVN	Duke92
17.607	Falcon 7X	MH 59. Sz.D. REB.	HUAF641
18.95-00123	UC-35A	E/1-214th AVN	Duke59
19.73+45	UH-1D	THR30	* Joker10
	C-12U-3	E/1-214th AVN	Duke60
	C-12U-3	E/1-214th AVN	Duke16
23.1x	C-160D	LTG63	* GAF004
25.84-00156	C-12U-3	E/1-214th AVN	Duke62
28.03	C-17A	HAW	30 Bartok38

Credits: MAR, Scramble messageboard.

Ramstein		September 2019	
01.87-0035	C-5M	436th AW	dep RCH721
	C-17A	89th AS AFRC	dep RCH101
04-4137	C-17A	305th AMW	02 RCH552
07-7174	C-17A	436th AW	dep RCH371
07-7182	C-17A	437th AW	RCH440/627
09-9208	C-17A	437th AW	02 RCH787/299
86-0419	C-130H	164th AS OH ANG	04 Herky794/170
166380/BH	KC-130J	VMGR-252	02 Bronco36
02.98-0053	C-17A	62nd AW	dep RCH463
98-0057	C-17A	137th AS NY ANG	03 RCH154
99-0169	C-17A	437th AW	dep RCH505
02-1107	C-17A	156th AS NC ANG	dep RCH635
05-5139	C-17A	729th AS AFRC	dep RCH504
07-7172	C-17A	60th AMW	dep RCH503
07-7183	C-17A	437th AW	dep RCH508
03.54+27	A400M	LTG62	GAF039
01	C-17A	HAW	04 Bartok50
87-0035	C-5M	436th AW	06 RCH721
02-1107	C-17A	156th AS NC ANG	05 RCH635
02-1109	C-17A	62nd AW	04 RCH487
07-7174	C-17A	436th AW	RCH371/210
07-7182	C-17A	437th AW	08 RCH529/440
10-0215	C-17A	437th AW	dep RCH897
10-0223	C-17A	437th AW	05 RCH1815
97-00105	UC-35A	E/1-214th AVN	Duke11
95-6710	C-130H	130th AS WV ANG	dep Herky22
04.98-0053	C-17A	62nd AW	RCH607
00-0178	C-17A	89th AS AFRC	05 RCH415
04-4132	C-17A	305th AMW	dep RCH180
04-4137	C-17A	305th AMW	05 RCH185

07-7184	C-17A	437th AW	dep RCH499	94-7315	C-130H	731st AS AFRC	RCH434/Slick36
07-7187	C-17A	437th AW	dep RCH383	94-7316	C-130H	731st AS AFRC	RCH632/Slick
10-0220	C-17A	62nd AW	05 RCH177	95-6710	C-130H	130th AS WV ANG	Herky30/Slick41
87-9285	C-130H	164th AS OH ANG	dep Herky21	15.96-0005	C-17A	137th AS NY ANG	RCH180
05.01	C-17A	HAW	06 Bartok50	02-1107	C-17A	156th AS NC ANG	RCH160/911
97-0048	C-17A	89th AS AFRC	09 RCH539	16.03	C-17A	HAW	Bartok99
03-3116	C-17A	183rd AS MS ANG	06 RCH172	71-01468	C-130E	222 Filo	18 TuAF726/Slick51
03-3124	C-17A	437th AW	09 RCH245	02-1109	C-17A	62nd AW	18 RCH358/Slick12
97-00102	UC-35A	E/1-214th AVN	Duke11	11-0550	C-37B	99th AS	17 SAM775
88-0194	MC-130H	1st SOW	15 RCH1010	07-4636	C-130J-30	19th AW	17 RCH314
86-0419	C-130H	164th AS OH ANG	09 Herky170/32	08-5684	C-130J-30	19th AW	17 RCH235
90-1793	C-130H	180th AS MO ANG	RCH687	08-5705	C-130J-30	19th AW	17 RCH441
95-6709	C-130H	130th AS WV ANG	dep Herky31	10-5700	C-130J-30	19th AW	17 RCH455
2x	F-16C/D	480th FS	* Noise01/02	14-5796	C-130J-30	19th AW	17 RCH318
06.00-0178	C-17A	89th AS AFRC	RCH415	15-5828	C-130J-30	19th AW	17 RCH332
07-7184	C-17A	437th AW	RCH499	17.MM62178/46-43KC-130J	2°Gr	18 IAM4684/Slick41	
10-0220	C-17A	62nd AW	07 RCH177	ET-197	F-16BM	Esk730	18 DAF3269
10-0222	C-17A	437th AW	08 RCH195/215	CE01	ERJ-135LR	21sm	BAF610
87-9285	C-130H	164th AS OH ANG	12 Herky21/RCH333	01-0189	C-17A	155th AS TN ANG	18 RCH407/399
95-6710	C-130H	130th AS WV ANG	09 Herky22/Jump44	03-3124	C-17A	437th AW	18 RCH744
07.86-0023	C-5M	68th AS AFRC	11 RCH222	90-1791	C-130H	180th AS MO ANG	18 RCH843
00-0183	C-17A	156th AS NC ANG	RCH226	90-1795	C-130H	180th AS MO ANG	18 RCH341/Slick61
01-0191	C-17A	436th AW	08 RCH114	90-0828/SP	F-16CM	480th FS	*
03-3116	C-17A	183rd AS MS ANG	09 RCH172	90-0833/SP	F-16CM	480th FS	*
06-6159	C-17A	60th AMW	08 RCH720	18.CE01	ERJ-135LR	21sm	BAF612
08.87-0042	C-5M	60th AMWRCH477/467		03	C-17A	HAW	19 Bartok99
00-0183	C-17A	156th AS NC ANG	09 RCH226/555	MM62178/46-43KC-130J	2°Gr	19 Slick41/71	
95-6709	C-130H	130th AS WV ANG	09 Herky31/Jump43	71-01468	C-130E	222Filo	19 Slick51/TuAF726
09.95-6709	C-130H	130th AS WV ANG	20 Jump43/Slick83	86-0023	C-5M	68th AS AFRC	22 RCH222
95-6710	C-130H	130th AS WV ANG	12 Jump44/Herky30	01-0189	C-17A	155th AS TN ANG	19 RCH399
60-0355/D	KC-135R	351st ARS	10 Quid12	02-1107	C-17A	156th AS NC ANG	19 RCH911
10.84-0061	C-5M	436th AW	20 RCH597/428	02-1109	C-17A	62nd AW	19 Slick12/RCH324
97-0048	C-17A	89th AS AFRC	11 RCH539	09-9205	C-17A	437th AW	19 RCH101
00-0183	C-17A	156th AS NC ANG	12 RCH555	10-0222	C-17A	437th AW	30 RCH283/558
06-6157	C-17A	60th AMW	11 RCH739	10-0223	C-17A	437th AW	RCH384/270
90-1793	C-130H	180th AS MO ANG	18 RCH687/Slick	87-9283	C-130H	164th AS OH ANG	19 SlickXX/20
92-3281	C-130H	96th AS AFRC	13 RCH601	90-1791	C-130H	180th AS MO ANG	22 SlickXX/RCH687
92-3283	C-130H	96th AS AFRC	13 RCH337	90-1793	C-130H	180th AS MO ANG	19 SlickXX
96-7322	C-130H	130th AS WV ANG	11 RCH212/188	90-1795	C-130H	180th AS MO ANG	19 Slick61
60-0355/D	KC-135R	351st ARS	11 Quid12	91-1234	C-130H	165th AS KY ANG	20 Slick20
11.86-0023	C-5M	68th AS AFRC	18 RCH222	91-1238	C-130H	165th AS KY ANG	20 Slick30/Slick23
84-0187	KC-10A	60th AMW	12 RCH599	91-1653	C-130H	180th AS MO ANG	20 Slick31
94-0069	C-17A	167th AS WV ANG	12 RCH939	94-7315	C-130H	731st AS AFRC	21 Slick36/12
00-0176	C-17A	155th AS TN ANG	12 RCH164	94-7316	C-130H	731st AS AFRC	20 SlickXX
06-6167	C-17A	436th AW	12 RCH221	13-5790/FT	HC-130J	71st RQS	King30
87-9283	C-130H	164th AS OH ANG	18 RCH106/Slick	15-20744	UH-60M	A/1-214th AVN	* Duke08
87-9287	C-130H	164th AS OH ANG	13 RCH349/Herky04	19.Z21121/TS-MTK	C-130J-30	21sq	TUN49
96-7322	C-130H	130th AS WV ANG	RCH188	87-0118	KC-10A	305th AMW	RCH858
06-3171	C-130J-30	317th AW	12 RCH259	00-0172	C-17A	156th AS NC ANG	20 RCH800
08-3179	C-130J-30	317th AW	12 RCH457	03-3124	C-17A	437th AW	20 RCH744
08-5691	C-130J-30	317th AW	12 RCH443	99-0004	C-32A	99th AS	SAM118
08-5724	C-130J-30	317th AW	12 RCH232	87-9283	C-130H	164th AS OH ANG	20 Slick20/Herky31
16-5849	C-130J-30	317th AW	12 RCH417	87-9287	C-130H	164th AS OH ANG	20 Herky04/Slick81
16-5856	C-130J-30	317th AW	12 RCH531	90-1793	C-130H	180th AS MO ANG	28 SlickXX/RCH687
60-0355/D	KC-135R	351st ARS	12 Quid12	90-1795	C-130H	180th AS MO ANG	22 Slick12
91-0361/SP	F-16CM	480th FS	12 Noise03/Pain03	95-6710	C-130H	130th AS WV ANG	20 Slick41/82
12.99-0169	C-17A	437th AW	13 RCH103	02-01863	C-37A	OHAWOM/PATD	PAT63
86-0419	C-130H	164th AS OH ANG	13 Herky32/RCH344	20.86-0019	C-5M	68th AS AFRC	25 RCH433
60-0355/D	KC-135R	351st ARS	13 Quid12	79-1711	KC-10A	305th AMW	RCH607
13.71-01468	C-130E	222 Filo	14 TuAF725	01-0188	C-17A	137th AS NY ANG	21 RCH147
99-0169	C-17A	437th AW	14 RCH103	04-4130	C-17A	305th AMW	21 RCH305
06-6166	C-17A	436th AW	20 RCH270/247	167112/BH	KC-130J	VMGR-252	23 Bronco35
07-7173	C-17A	436th AW	14 RCH197	87-9287	C-130H	164th AS OH ANG	28 Slick81/RCH544
10-0222	C-17A	437th AW	RCH215	88-1305	AC-130W	27th SOW	22 RCH1034
10-0223	C-17A	437th AW	14 RCH1815	91-1234	C-130H	165th AS KY ANG	21 Slick20/13
90-1791	C-130H	180th AS MO ANG	RCH843	91-1238	C-130H	165th AS KY ANG	24 Slick23
90-1795	C-130H	180th AS MO ANG	RCH341	91-1653	C-130H	180th AS MO ANG	22 Slick31/13
91-1653	C-130H	180th AS MO ANG	18 RCH420/Slick	94-7316	C-130H	731st AS AFRC	21 Slick11
14.84-0060	C-5M	60th AMW	15 RCH857	95-6709	C-130H	130th AS WV ANG	22 Slick83/11
87-0031	C-5M	337th AS AFRC	15 RCH605	95-6710	C-130H	130th AS WV ANG	23 Slick82/Herky609
96-0005	C-17A	137th AS NY ANG	15 RCH180	21.Z21121/TS-MTK	C-130J-30	21sq	TUN48
02-1107	C-17A	156th AS NC ANG	15 RCH160	00-0172	C-17A	156th AS NC ANG	23 RCH800
10-0222	C-17A	437th AW	16 RCH502/283	01-0192	C-17A	137th AS NY ANG	22 RCH170
87-9287	C-130H	164th AS OH ANG	19 Herky04	06-6161	C-17A	60th AMW	24 RCH620/797
91-1234	C-130H	165th AS KY ANG	18 Derby32/Slick	09-9205	C-17A	437th AW	RCH101
91-1238	C-130H	165th AS KY ANG	18 RCH265/Slick30	91-1234	C-130H	165th AS KY ANG	24 Slick13/RCH203



84-00170 C-12U-3 D/204th MI Bn Det Stuttgart

Credits: MAR, Scramble messageboard.Ireland

Shannon		September 2019	
01.85-0004	C-5M	436th AW	
02.11-0550	C-37B	99th AS	
98-0001	C-32A	1st AS	
99-0004	C-32A	1st AS	
04.90-1793	C-130H	180th AS MO ANG	
05.075/F-RAJA	A340-212	ET03.0060	
07-8609/RS	C-130J-30	37th AS	
84-00162	C-12U-3	US Army	
84-00165	C-12U-3	US Army	
06.01-0188	C-17A	137th AS NY ANG	
07.04-4128	C-17A	305th AMW	
08.05-0932	C-40C	73rd AS AFRC	
10-0222	C-17A	437th AW	
09.84-00156	C-12U-3	US Army	
11.075/F-RAJA	A340-212	ET03.0060	
12.90-1791	C-130H	180th AS MO ANG	
90-1795	C-130H	180th AS MO ANG	
91-1653	C-130H	180th AS MO ANG	
13.84-00162	C-12U-3	US Army	
14.01-0040	C-40B	1st AS	
18.99-0004	C-32A	1st AS	
21.11-0550	C-37B	99th AS	
23.97-00105	UC-35A	US Army	
28.90-1791	C-130H	180th AS MO ANG	
91-1653	C-130H	180th AS MO ANG	
01-0015	C-40B	1st AS	
02-0201	C-40C	201st AS DC ANG	

Credits: MAR, Scramble messageboard.Portugal

Lajes, Azores		September 2019	
01.1292/SU-BEY	C-130H	4sq/16sq	EGY1116
130607	CC-130J	436sq	02 CFC4260
05.075/F-RAJA	A340-211	ET03.060	CTM1103
16-3020	C-146A	524th SOS	RCH1041
07.13-5790/FT	HC-130J	71st RQS	08 King30
06-0740	U-28A	319th SOS	08 RCH1019
08-0700	U-28A	319th SOS	08 RCH1017
165831	C-40A	USN	CNV4602
08.1291/SU-BEX	C-130H	4sq/16sq	09 EGY1117
73-1580/DM	EC-130H	55th ECG	10 Axis41
09.82-1071/WM	B-2A	509th BW	Mytee21
10.93-1037	C-130H	700th AS AFRC	RCH047
92-0552	C-130H	700th AS AFRC	RCH240
96-6044	CN-235	427th SOS	RCH57
11.16-5834	C-130J-30	317th AW	RCH348
08-3172	C-130J-30	317th AW	RCH317
17-5865	C-130J-30	317th AW	RCH638
075/F-RAJA	A340-211	ET03.060	CTM1102
01-0029	C-37A	76th AS	Valor29
88-1302	AC-130W	16th SOS	12 RCH1035
12.04-4128	C-17A	305th AMW	RCH327
13.1291/SU-BEX	C-130H	4sq/16sq	15 EGY1117
927	F-35I	del to Israeli AF	15 Retro51/52
928	F-35I	del to Israeli AF	15 Retro51/52
61-0308	KC-135R	6th AMW	16 Blue02
61-0323	KC-135R	6th AMW	15 Blue01
15.1289/SU-BAV	C-130H	4sq/16sq	16 EGY1118
16.-/RL	P-3	NRL	no external serial 17 RL337
17.MM62189/46-55	C-130J	2°Gr TM	18 IAM4685
V-11	G-IV	334sq	NAF11
01-0029	C-37A	76th AS	Valor29
07-4638	C-130J-30	317th AW	RCH319
08-5693	C-130J-30	317th AW	RCH304
10-5701	C-130J-30	317th AW	RCH933
84-0126	C-21A	76th AS	18 Valor99
19.14+03	Global 5000	FBS BMVg	GAF624
R09-001	IL-78	Pakistan AF	PAAF892
61-0292/D	KC-135R	351st ARS	* Quid45
20.144615	CC-144B	412sq	CFC3240

1289/SU-BAV	C-130H	4sq/16sq	22 EGY1118
21.85-0011	MC-130H	15th SOS	RCH1013
22.1280/SU-BAL	C-130H	4sq/16sq	23 EGY1119
23.V-11	G-IV	334sq	NAF11
R09-001	IL-78	Pakistan AF	PAAF892
ZE707	BAe146 C3	32(TR)sq	24 RRR1923
24.T18-3/45-42	Falcon 900B	451 Esc	AME4541
25.-/RL	P-3	NRL	RL337
26.177703	CC-177	429sq	28 CFC4098
27.1280/SU-BAL	C-130H	4sq/16sq	29 EGY1119
166762/BH	KC-130J	VMGR-252	Otis86
29.130344	CC-130H	413sq	30 CFC2185

United Kingdom

Brize Norton		September 2019	
01.10+24	A310-304MRTT	FBS BMVg	20 GAF086
KAF328	KC-130J	41sq	03 KAF3204
03.253	CN235M-100	101sq	IRL253
ZM333	Phenom T1	45sq	CWL41
04.06/blue	C-27J	Lithuanian AF	LYF277
ZZ380	Wildcat HMA2	RN	
05.ZM532	Juno HT1	DHFS	* SYS26
ZM333	Phenom T1	45sq	* CWL40
GZ100	AW-109SP	32(TR)sq	
06.54+10	A400M	LTG62	
ZJ195	Apache AH1	673sq	a/f AA062/063/065/064
ZJ217	Apache AH1	673sq	a/f AA062/063/065/064
ZJ231	Apache AH1	673sq	a/f AA062/063/065/064
ZJ222	Apache AH1	673sq	a/f AA062/063/065/064
08.KAF343	C-17A	41sq	10 KAF3209
09.G-ETPB	PC-21	ETPS	* ETP74
ZM337	Phenom T1	45sq	CWL45
10.KAF343	C-17A	41sq	KAF3209
11.07-7185	C-17A	437th AW	13 RCH958/913
ZZ418	Shadow R1	14sq	Snake48
ZJ125/J	Merlin HC4	846NAS	Junglie427
ZJ694	Sentinel R1	5sq	* Snapshot02
G-ETPL	BAe146/RJ100	ETPS	* ETP74
12.ZH856	Merlin HM2	NAVY812	
08-0051	CV-22B	7th SOS	Knife71
AB910/SH-F	Spiritfire Vb	BoBMF	+ 13
13.06/blue	C-27J	Lithuanian AF	LYF277
15.1223	C-17A	UAE AF	19 UAF1230
16.KAF343	C-17A	41sq	17 KAF3210
17.1292/SU-BEY	C-130H	4sq/16sq	EGY1512
1280/SU-BAL	C-130H	4sq/16sq	EGY1513
08-0050	CV-22B	7th SOS	* Knife71
12-0064	CV-22B	7th SOS	* Knife71
18.667	C-130J-30	103sq	19 IDF472
668	C-130J-30	103sq	19 IDF473
19.54+29	A400M	LTG62	GAF684
20.06-6166	C-17A	436th AW	RCH247
24.ZM334	Phenom T1	45sq	CWL35
UR-82007	An-124	ADB	26 ADB293F/2793
25.ZH902	Chinook HC5	Odiham Wg	* SHF447
ZM337	Phenom T1	45sq	* CWL41
26.ZJ955	Puma HC2	Benson Wg	* SHF245

Credits: MAR, Scramble messageboard.

Cambridge		September 2019	
03.ZH868/868	Hercules C4		arr RRR5997
06.84004/844	Tp-84	TSFE	t/f
10.84004/844	Tp-84	TSFE	dep SVF809
16.213/MAJ	C-130J-30	Qatar AF	arr Dema123
17.B-536	C-130J-30	Esk 721	DAF536
19.8T-CB	C-130K	Austrian AF	dep
23.ZH878	Hercules C4	24sq/47sq	MCE01
23.214/MAK	C-130J-30	Qatar AF	t/f
24.ZH869/869	Hercules C4	24sq/47sq	dep MCE04
25.ZH877/877	Hercules C4		arr MCE01
27.B-536	C-130J-30	Esk721	DAF6127
C-215	CL-604	Esk721	DAF6843
214/MAK	C-130J-30	Qatar AF	DEMA123
28.GZ100	AW-109SP	32(TR)sq	
30.ZH865/865	Hercules C4		arr

Credits: MAR, Scramble messageboard.

Coningsby			September 2019	29 A6-HEH	B737-8AJ	Gvmt of Dubai	30 DUB6
02.ZM307	Prefect T1	3FTS	* BKH	<u>Credits:</u> MAR, Scramble messageboard.			
03.84-0019/LN	F-15C	493rd FS	* Grimm1/2	Lakenheath			September 2019
86-0163/LN	F-15C	493rd FS	* Grimm1/2	04.12-5757	MC-130J	67th SOS	Strix52
ZM142	F-35B	207sq	* Bolt21/22	05.12-0063	CV-22B	7th SOS	06 Knife79
ZM150	F-35B	207sq	* Bolt21/22	06.90-1793	C-130H	180th AS MO ANG	RCH687
ZM321	Prefect T1	3FTS	04	11.ZJ184	Apache AH1	3/4Regt	* Gunship01-03
G-MAOL	AW-109SP	32(TR)sq	RRR1319	ZJ199	Apache AH1	3/4Regt	* Gunship01-03
04.ZM314	Prefect T1	3FTS	* BKH87	ZJ230	Apache AH1	3/4Regt	* Gunship01-03
ZM321	Prefect T1	3FTS	* CWL79	12.11-5736	C-130J-30	37th AS	HKY605
ZM142	F-35B	207sq	* Nitro21/22	10-5714	MC-130J	67th SOS	Strix47
ZM152	F-35B	207sq	* Nitro21/22	23.12-1004	F-15SA	del RSAF	26 Retro61-64
10.01-2001/LN	F-15E	48th FW	* Mongol61/62	12-1029	F-15SA	del RSAF	26 Retro61-64
01-2004/LN	F-15E	48th FW	* Mongo61/62	12-1042	F-15SA	del RSAF	26 Retro61-64
ZK311/311	Typhoon FGR4	del to Lossiemouth	Typhoon39	12-1079	F-15SA	del RSAF	26 Retro61-64
ZM308	Prefect T1	3FTS	* BKH81	90-1791	C-130H	180th AS MO ANG	RCH687
ZK328/328	Typhoon FGR4	ex Lossiemouth	Lossie39	95-6710	C-130H	130th AS WV ANG	HKY609
11.84-0046/LN	F-15D	493rd FS	* Gator	<u>Credits:</u> MAR, Scramble messageboard.			
84-0044/LN	F-15D	493rd FS	* Gator	Lossiemouth			September 2019
ZM149	F-35B	207sq	* Doom21/22	09.ZE701	BAe146 CC2	32(TR)sq	10 RRR1403
ZM150	F-35B	207sq	* Doom21/22	10.XX321/CI	Hawk T1A	100sq	Pirate22
ZK562	Chinook HC6	7sq	* SHF397	12.XX202/CS	Hawk T1A	100sq	Pirate22
13.ZJ220	Apache AH1	AAC	* Viper1/2	ZH856	Merlin HM2	820NAS	arr Nvy812
ZJ225	Apache AH1	AAC	* Viper1/2	19.G-FPLD	Beech B200	Cobham	CLB492
16.ZJ211 +2	Apache AH1	AAC	* Hunter1-3	26.01-0029	C-37A	76th AS	* Valor29
ZJ955	Puma HC2	Benson Wg	SHF242	09-000646	MC-12W	US Army	diversion Elvis52
17.G-COBS	Da-42	Cobham	CLB492/459	30.ZH891	Chinook HC6A	27sq	tdy Onslaught1-3
ZK560	Chinook HC6	7sq	18 SHF396	ZH894	Chinook HC6A	27sq	tdy Onslaught1-3
18.ZM142	F-35B	207sq	* Nitro21/22	ZH902	Chinook HC6A	27sq	tdy Onslaught1-3
ZM152	F-35B	207sq	* Nitro21/22	ZZ191	Hunter F58	HHA	* Scampton33
19.ZM142	F-35B	207sq	*	<u>Credits:</u> MAR, Scramble messageboard.			
ZM152	F-35B	207sq	*	Mildenhall			September 2019
23.ZK033/FI	Hawk T2	25sq	24 VYT31	01.09-9208	C-17A	437th AW	dep RCH787
26.ZK360/360	Typhoon FGR4	ex Lossiemouth	Venom11	07-7182	C-17A	437th AW	RCH627/497

Credits: MAR, Scramble messageboard.

Fairford			September 2019
02.87-0042	C-5M	60th AMW	08RCH477
87-0036	C-5M	436th AW	* RCH514
04.89-1192	C-17A	437th AW	07 RCH183
05.60-0041/BD	B-52H	93rd BS AFRC	19 Scalp99
17.60-0009/MT	B-52H	69th BS	Mytee91
99-0169	C-17A	437th AW	* RCH30220
80-1067	U-2S	99th RS	24 Dragon22/81
80-1071	U-2S	99th RS	Dragon21
23.60-0041/BD	B-52H	93rd BS AFRC	24 Scalp99
26.80-1080	U-2S	99th RS	02 Dragon86/51
84-00165	C-12U-3	E/1-214th AVN	* Duke64
30.04-4130	C-17A	305th AMW	RCH106

Credits: MAR, Scramble messageboard.

Farnborough			September 2019
01.9K-GGD	G6	Gvmt of Kuwait	27 KUG8064
A6-MRM	B737-8EC	Gvmt of Dubai	02 DUB5
02.A6-MRM	B737-8EC	Gvmt of Dubai	03 DUB5
03.A6-HEH	B737-8AJ	Gvmt of Dubai	05 DUB6
05.DU-142	AW-139	Gvmt of Dubai	DU142
A6-HHH	G650ER	Gvmt of Dubai	10 DUB15
ZM300	Prefect T1	3FTS	CWL74
06.A6-HRS	B737-7E0	Gvmt of Dubai	DUB4
07.A6-MRM	B737-8EC	Gvmt of Dubai	08 DUB5
A6-HRS	B737-7E0	Gvmt of Dubai	14 DUB4
08.554	A320-214	4sq	MJN520
09.A9C-BAH	G650	Gvmt of Bahrain	15 BAH6
10.A6-MRM	B737-8EC	Gvmt of Dubai	16 DUB5
12.A6-SHJ	A320-232	Gvmt of Sharjah	18 SHJ01
A6-HEH	B737-8AJ	Gvmt of Dubai	18 DUB6
14.A9C-BRN	G550	Gvmt of Bahrain	15 BAH5
16.A6-MRM	B737-8EC	Gvmt of Dubai	17 DUB5
17.A6-MRM	B737-8EC	Gvmt of Dubai	DUB5
18.A6-MRM	B737-8EC	Gvmt of Dubai	20 DUB5
A6-HEH	B737-8AJ	Gvmt of Dubai	22 DUB6
21.A6-HHH	G650ER	Gvmt of Dubai	DUB15
22.A6-MRS	B737-8E0	Gvmt of Dubai	23 DUB7
25.A9C-BAH	G650	Gvmt of Bahrain	BAH6
26.9K-GGC	G6	Gvmt of Kuwait	14 KUG8065
28.A6-MRM	B737-8EC	Gvmt of Dubai	29 DUB7

29 A6-HEH	B737-8AJ	Gvmt of Dubai	30 DUB6
<u>Credits:</u> MAR, Scramble messageboard.			
Lakenheath			September 2019
04.12-5757	MC-130J	67th SOS	Strix52
05.12-0063	CV-22B	7th SOS	06 Knife79
06.90-1793	C-130H	180th AS MO ANG	RCH687
11.ZJ184	Apache AH1	3/4Regt	* Gunship01-03
ZJ199	Apache AH1	3/4Regt	* Gunship01-03
ZJ230	Apache AH1	3/4Regt	* Gunship01-03
12.11-5736	C-130J-30	37th AS	HKY605
10-5714	MC-130J	67th SOS	Strix47
23.12-1004	F-15SA	del RSAF	26 Retro61-64
12-1029	F-15SA	del RSAF	26 Retro61-64
12-1042	F-15SA	del RSAF	26 Retro61-64
12-1079	F-15SA	del RSAF	26 Retro61-64
90-1791	C-130H	180th AS MO ANG	RCH687
95-6710	C-130H	130th AS WV ANG	HKY609

Credits: MAR, Scramble messageboard.

Lossiemouth			September 2019
09.ZE701	BAe146 CC2	32(TR)sq	10 RRR1403
10.XX321/CI	Hawk T1A	100sq	Pirate22
12.XX202/CS	Hawk T1A	100sq	Pirate22
ZH856	Merlin HM2	820NAS	arr Nvy812
19.G-FPLD	Beech B200	Cobham	CLB492
26.01-0029	C-37A	76th AS	* Valor29
09-000646	MC-12W	US Army	diversion Elvis52
30.ZH891	Chinook HC6A	27sq	tdy Onslaught1-3
ZH894	Chinook HC6A	27sq	tdy Onslaught1-3
ZH902	Chinook HC6A	27sq	tdy Onslaught1-3
ZZ191	Hunter F58	HHA	* Scampton33

Credits: MAR, Scramble messageboard.

Mildenhall			September 2019
01.09-9208	C-17A	437th AW	dep RCH787
07-7182	C-17A	437th AW	RCH627/497
02.08-8602/RS	C-130J	37th AS	Herky709
03.62-3537	KC-135R	77th ARS AFRC	dep RCH437
04.83-0075	KC-10A	60th AMW	RCH022
86-0032	KC-10A	305th AMW	RCH104
86-0038	KC-10A	60th AMW	07 RCH021
05.ZZ173	C-17A	99sq	* RRR818
83-0075	KC-10A	60th AMW	06 RCH022
64-14847/OF	RC-135U	55th Wg	10 Olive56
84-00165	C-12U-3	E/1-214th AVN	Duke85
09.ZM335	Phenom T1	45sq	* Cranwell36
94-0069	C-17A	167th AS WV ANG	10 RCH939
11-5736/RS	C-130J-30	37th AS	Herky713
84-00165	C-12U-3	E/1-214th AVN	Duke31
11.98-0135/LN	F-15E	492nd FS	* Raider51
91-0318/LN	F-15E	492nd FS	* Raider52
11-0550	C-37B	99th AS	13 SAM775
84-00156	C-12U-3	E/1-214th AVN	Duke85
12.86-0030	KC-10A	305th AMW	20 Roma21
86-0036	KC-10A	305th AMW	16 RCH091
91-0310/LN	F-15E	494th FS	Flex61
91-0314/LN	F-15E	494th FS	Flex62
13.63-8883	KC-135R	6th AMW	14 RCH606
58-0103	KC-135T	6th AMW	14 RCH445
14.62-3507	KC-135R	336th ARS AFRC	dep
62-2670/OF	OC-135B	55th Wg	16 OSY12T
15.61-0313	KC-135R	77th ARS AFRC	arr RCH782
164598	KC-130T	VR-53	29 CNV3404
169332	P-8A	VP-8	25 PD093
16.272	KC-707 Reem	120sq	* Giant1
041	Falcon 20	717SKv	17 NOW717G
84-0083	C-21A	76th AS	Valor21
17.60-0009/MT	B-52H	69th BS	finally dep Mytee91
62-3517	KC-135R	6th AMW	18 RCH619
18.041	Falcon 20	717Skv	NOW717G
ZJ692	Sentinel R1	5sq	* Snapshot1
ZM334	Phenom T1	45sq	* Cranwell31
ZM337	Phenom T1	45sq	* Cranwell36
57-1453	KC-135R	191st ARS UT ANG	RCH250
60-0359	KC-135R	72nd ARS AFRC	19 RCH877
60-0363	KC-135R	72nd ARS AFRC	19 RCH878

19.LX-N90447	E-3A	NAEW&CF	* NATO40	93-1037	C-130H	700th AS AFRC	10 RCH047
79-1710	KC-10A	305th AMW	20 RCH984	09.497/31-CM	KC135RG	GRV02.091	* FAF4016
20.86-0019	C-5M	68th AS AFRC	RCH433	11-0550	C-37B	99th AS	SAM809
57-1508	KC-135R	314th ARS AFRC	21 RCH138	168980	C-40A	VR-61	CNV4982
21.87-0041	C-5M	337th AS AFRC	22 RCH470	164597/RU	KC-130T-30	VR-55	10 CNV6505
61-2670/OF	OC-135B	55th Wg	22 OSY12T	N560WK	Dash8-300	US Dept of State	State60
22.59-1470	KC-135T	92nd/141st ARW	23 RCH719	10.84-00156	C-12U-3	E/1-214th AVN	Duke23
23.85-0027	KC-10A	305th AMW	24 Gold11	11.258	Lj45	102sq	Irish258
63-8878	KC-135R	314th ARS	24 RCH526	ZF139/139	Tucano T1	72sq	LOP22
57-1453	KC-135R	106th ARS AL ANG	24 RCH113	ZF269/269	Tucano T1	72sq	LOP401
24.73-1585	EC-130H	55th ECG	arr Axis41	ZF417/417	Tucano T1	72sq	LOP406
25.ZH104/04	Sentry AEW1	8sq	* NATO31	84-00165	C-12U-3	E/1-214th AVN	Duke48
84-0191	KC-10A	60th AMW	27 RCH151	08-5724	C-130H-30	39th AS	RCH232
84-0125	C-21A	458th AS	RCH157	12.06-6161	C-17A	60th AMW	RCH194
84-0126	C-21A	76th AS	Valor42	164598/AX	C-130T-30	VR-53	13 CNV3404
58-0104	KC-135R	108th ARS IL ANG	RCH639	13.CS-TRJ	A321-231	21sm	BAF630
165348	C-130T	VR-53	26 CNV3701	130611	CC-130J-30	436sq	CFC4228
26.ZM333	Phenom T1	45sq	* Cranwell31	ZF142/142	Tucano T1	72sq	LOP49
27.85-0027	KC-10A	305th AMW	30 RCH220	ZF239/239	Tucano T1	72sq	LOP404
85-0031	KC-10A	305th AMW	30 Roma23	ZF269/269	Tucano T1	72sq	LOP405
08-6203	MC-130J	415th SOS	28 RCH1033	91-1234	C-130H	165th AS KY ANG	14 RCH203
28.61-0294	KC-135R	314th ARS AFRC	arr RCH731	91-1238	C-130H	165th AS KY ANG	14 RCH265
30.57-1462	KC-135R	153rd ARS MS ANG	01 RCH186	94-7315	C-130H	731st AS AFRC	14 RCH434
58-0071	KC-135R	6th AMW	01 Roma25	94-7316	C-130H	731st AS AFRC	14 RCH632
62-3568	KC-135R	6th AMW	01 Roma24	16.84-0126	C-21A	76th AS	Valor42
63-8025	KC-135R	92nd/141st ARW	26 Quid100/101	58-0102	KC-135R	465th ARS AFRC	17 RCH595

Credits: MAR, Scramble messageboard.

			September 2019				
Prestwick				CNV6630			
01.165835	C-40A	(VR-57)		CNV3101	58-0058	KC-135R	18 RCH636
165161/BD	C-130T	VR-64		02 CNV6528	59-1506	KC-135R	18 RCH233
164597/RU	C-130T-30	VR-55			165831	C-40A	18 CNV4324
02.15005	CC-150T	437sq		G-CGKR/KR	Tutor T1	UGSAS	* UAJ47
86-0024	C-5M	60th AMW	03 RCH633	18.01	C-17A	HAW	Bartok98
02-1099	C-17A	758th AS AFRC	03 RCH471	19.13-5790/FT	HC-130J	71st RQS	20 King30
166695	C-40A	(VR-56)	CNV4564	63-8035	KC-135R	106th ARS AL ANG	RCH683
03.12-5760	MC-130J	67th SOS	* Strix63	05-0446	U-28A	319th SOS	20 RCH1028
04.98-0053	C-17A	62nd AW	05 RCH607	07-0777	U-28A	319th SOS	20 RCH1022
84-0126	C-21A	76th AS	Valor42	07-0829	U-28A	319th SOS	20 RCH1016
74-1661	C-130H	186th AS MT ANG	05 RCH220	08-0822	U-28A	319th SOS	20 RCH1014
05.ZM417	Atlas C1	24sq/70sq	* Comet473	166696	C-40A	VR-56	CNV4405
G-CGKR/KR	Tutor T1	UGSAS	* UAJ42	20.58-0085	KC-135R	336th ARS AFRC	22 RCH660
06.130615	CC-130J	436sq	09 CFC4261	21.144615	CC-144B	412sq	CFC3240
164598/AX	KC-130T-30	VR-53	08 CNV3404	61-0280	KC-135R	336th ARS AFRC	23 RCH415
07.15001	CC-150	437sq	CFC4148	22.61-0300	KC-135R	108th ARS IL ANG	23 RCH790
92-0552	C-130H	700th AS AFRC	10 RCH240	62-3519	KC-135R	22nd ARW	23 RCH550



One of the Mildenhall based units is 67th SOS to which this MC-130J 12-5760 belongs (3 September 2019, Martin Uleman)



The latest Shadow R2 addition to 14sq at RAF Waddington is ZZ507. As can be seen it is sporting a semi civil scheme as a change to the normal drab grey scheme of the other aircraft. (4 November 2019, Martin Fox)

64-14836	KC-135R	108th ARS IL ANG	23 RCH468	02-01863	C-37A	USAPAT	25 PAT63
23.738/31-CJ	C-135FR	GRV02.091	* FAF4017	25.ZM336	Phenom T1	45sq	CWL30
ZM416	Atlas C1	24sq/70sq	RRR477	A7-MBK	A320CJ	Gvmt of Qatar	
24.130611	CC-130J-30	436sq	CFC4228	28.9K-GBB	A340-541	Gvmt of Kuwait	KUG005
ZM413	Atlas C1	24sq/70sq	25 RRR464	30.YI-ASF	B737-81Z	Gvmt of Iraq	IAW04
84-0126	C-21A	76th AS	Valor42				
91-1234	C-130H	165th AS KY ANG	RCH203				
91-1238	C-130H	165th AS KY ANG	RCH265				
25.ZM416	Atlas C1	24sq/70sq	RRR482				
84-0126	C-21A	76th AS	Valor42				
01-0029	C-37A	76th AS	Valor29				
165829	C-40A	VR-58	26 CNV6620/4081				
28.15004	CC-150T	437sq	29 CFC4188	05.10+24	A310-304MRTT	FBS BMVg	* COBO25
KAF327	KC-130J	41sq	07 KAF3202	30+79	EF-2000	TLG73	GAFS05
29.ZM411	Atlas C1	24sq/70sq	* RRR463	08.435	C-130H	131sq	09 IAF471
ZZ330	Voyager K2	10/101sq	RRR2301	09.30+73	EF-2000	TLG73	dep GAFS06
164597/RU	KC-130T-30	VR-55	CNV6527	30+65	EF-2000	TLG73	GAFS06
N95NA	G-V	NASA/JSC	Nasa5	11.665	C-130J-30	103sq	12 IAF485
30.130344	CC-130H-30	413sq	01 CFC2185	15.272	KC-707	120sq	IAF474
ZM411	Atlas C1	24sq/70sq	* Comet465	16.ZM149/149	F-35B	207sq	* Doom21
ZM415	Atlas C1	24sq/70sq	01 RRR467	ZM150/150	F-35B	207sq	* Doom22
58-0054	KC-135T	171st ARW PA ANG	01 RCH804	17.ZK309/309	Typhoon FGR4	29sq	Typhoon84
58-0117	KC-135T	171st ARW PA ANG	01 RCH431	18.264	KC-707	120sq	Giant2
				19.264	KC-707	120sq	Giant02
				272	KC-707	120sq	Giant01
				667	C-130J-30	103sq	IAF473
				668	C-130J-30	103sq	IAF472
				20.30+20	EF-2000	TLG73	dep Fozzy41/GAFS02A
				30+47	EF-2000	TLG73	dep Ester33/GAFS01D
				30+50	EF-2000	TLG73	dep Ester32/GAFS01B
				30+56	EF-2000	TLG73	dep Ester34/GAFS01C
				30+64	EF-2000	TLG73	dep Ester31/GAFS01A
				30+65	EF2000	TLG73	dep Fozzy42/GAFS02B
				MM7321/37-12	F-2000A	37°St	dep IAF0420A
				MM7353/36-56	F-2000A	36°St	dep IAF0420B
				MM7352/36-55	F-2000A	36°St	dep IAM0409
				MM7311/4-55	F-2000A	4°St	dep IAM0409
				21.10+23	A310-304MRTT	FBS BMVg	GAF243
				24.54+08	A400M	LTG62	GAF024
				MM62196/46-62C-130J	C-130J	2°Gr TM	IAM4663
				25.MM62194/46-60	C-130J	2°Gr TM	IAM4664
				G-COBS	DA-42	Cobham	CLB497
				26.54+08	A400M	LTG62	GAF012
				MM62178/46-43	KC-130J	50°Gr TM	IAM4665
				27.XX202/CS	Hawk T1A	100sq	* Pirate23
				ZZ514	Wildcat HMA2	825NAS	Talon720

Credits: MAR, Scramble messageboard.

Stansted			September 2019				
02.A40-OMN	B747-430	Gvmt of Oman	ORF1	20.30+20	EF-2000	TLG73	dep Fozzy41/GAFS02A
A6-HRM	B747-422	Gvmt of Dubai	+05,10, 24 DUB1	30+47	EF-2000	TLG73	dep Ester33/GAFS01D
87-0032	C-5M	436th AW	RCH521	30+50	EF-2000	TLG73	dep Ester32/GAFS01B
03.A9C-HMH	B767-4FS(ER)	Gvmt of Bahrain	BAH3	30+56	EF-2000	TLG73	dep Ester34/GAFS01C
04.98-0001	C-32A	1st AS	05 SAM898	30+64	EF-2000	TLG73	dep Ester31/GAFS01A
99-0004	C-32A	1st AS	05 SAM324	30+65	EF2000	TLG73	dep Fozzy42/GAFS02B
A40-OMN	B747-430	Gvmt of Oman	ORF1	MM7321/37-12	F-2000A	37°St	dep IAF0420A
A40-AE	G550	Gvmt of Oman	ORF4	MM7353/36-56	F-2000A	36°St	dep IAF0420B
05.01-0187	C-17A	62nd AW	RCH500	MM7352/36-55	F-2000A	36°St	dep IAM0409
07-7180	C-17A	437th AW	RCH501	MM7311/4-55	F-2000A	4°St	dep IAM0409
06.87-0032	C-5M	436th AW	RCH521	21.10+23	A310-304MRTT	FBS BMVg	GAF243
07-7183	C-17A	437th AW	07 RCH511	24.54+08	A400M	LTG62	GAF024
12.A6-MMM	B747-422	Gvmt of Dubai	DUB2	MM62196/46-62C-130J	C-130J	2°Gr TM	IAM4663
15.A9C-HAK	B747-4F6	Gvmt of Bahrain	BAH2	25.MM62194/46-60	C-130J	2°Gr TM	IAM4664
16.98-0001	C-32A	1st AS	17 SAM013	G-COBS	DA-42	Cobham	CLB497
54+24	A400M	LTG62	17 GAF014	26.54+08	A400M	LTG62	GAF012
17.14+02	Global 5000	FBS BMVg	GAF609	MM62178/46-43	KC-130J	50°Gr TM	IAM4665
20.A6-MMM	B747-422	Gvmt of Dubai	DUB2	27.XX202/CS	Hawk T1A	100sq	* Pirate23
A7-HHE	B747-8KB	Gvmt of Qatar	QAF1	ZZ514	Wildcat HMA2	825NAS	Talon720
22.A6-PFE	B787-9	Gvmt of Abu Dhabi	AUH05				
23.9M-NAB	A320-214X	Gvmt of Malaysia					

Credits: MAR, Scramble messageboard.

# Civil News



Friday 22 November 2019 was the roll-out of the newest and longest member of the plagued 737 MAX family, the 737 MAX 10 (registered N27751, msn 66122). Due to the 737 MAX crisis it was a quiet and non-media event, only attended by Boeing employees. (Renton (WA), 22 November 2019, Boeing)

## Manufacturers News

### Boeing

#### 737 MAX 10

Friday 22 November 2019, Boeing rolled out the newest and longest 737 MAX variant, the 737 MAX 10. With the 737 MAX crisis still not solved, the roll-out was a very quiet non-media event. The MAX 10 was launched at the Paris Air Show in June 2017 and is a 1,67m stretch compared to the 737 MAX 9. It features the same “mid-exit” door (for a variable exit-limit rating) but, besides its length, there are few other visible differences. The 737 MAX 10 features a “levered” main landing gear. The main landing gear has been modified to enable adequate clearance for the longer fuselage for rotation on take-off and landing and to ensure the aircraft remains stall rather than pitch-limited. Despite the greater clearance, Boeing chose to stick with the Leap-1B engine to minimise development costs and offers a thrust-bump version of the engine for the 737-10, rather than choosing a larger fan engine like the Leap-1A, which might provide lower fuel consumption but less commonality. To support the greater passenger capacity, the aircraft will also have an increased MTOW. Boeing has currently 530 orders in the book for the 737 MAX 10, which makes the aircraft far more popular than the 737 MAX 9. Many airlines swapped their 737 MAX 9 orders for the MAX 10 and in total 266 of the 530 orders were swapped from other MAX variants. The first 737 MAX 10 is registered as N27751 and Boeing hopes to deliver the first 737 MAX 10 in July next year, but with the current 737 MAX crisis, this will probably be postponed.

### COMAC

#### C919

The COMAC C919 test flight programme expanded with a fifth (B-001F, c/n 105) prototype, making its first flight on 24 October 2019 out of Shanghai. As stated in Scramble 485 the flight test programme will include six C919s. The first commercial airline deliveries are foreseen to occur in Q4 2020, a year behind schedule.

### De Havilland Canada

#### DHC-8-400Q

During the Dubai Air Show 2019 De Havilland Canada secured two orders of their DHC-8 turboprop from the African market. Nigerian mining company Elin Group ordered three DHC-8-400Qs in order to support their mining projects throughout Nigeria. Secondly lease firm Palma Holding signed a Letter

of Intention (LoI) for twenty DHC-8-400Qs. Palma Holding already outsourced Dash 8s before as the fleets of Ethiopian Airlines, Rwandair and Falcon Aviation all originate from their portfolio.

### MHI

#### SpaceJet M90

On 1 November 2019 Mitsubishi Aircraft confirmed a large setback on their SpaceJet M90 programme. Trans States Holding, owning various regional US airlines, cancelled their order for fifty M90s and dropped their option for another fifty. This order was made back in 2009. The given explanation was that the 88-seat variant does not meet the requirements of the US-market. This phrase could boomerang back at MHI in the near future as three remaining US airline orders (SkyWest, AeroLease Aviation and Mesa Airlines) resemble over 75% of the backlog on the M90 and M100.

### Embraer

In the second week of November 2019 Embraer shared their vision on their roadmap after the Embraer E2 programme. The focus will change, back from larger regional jets towards a smaller turboprop airliner. Current studies are looking at an airplane capable of transporting seventy passengers in a single configuration and fifty passengers in a two-class configuration, specific for the American market. As the origin of Embraer started with their EMB110 Bandeirante it does make sense that they explore this domain once more. However the final verdict will be up to Boeing officials as they are going to become 80% owner of the Commercial Aircraft Division.

For the EMB175-E2, the timeline has been adjusted to a first flight expected this month and a commercial entry into service in 2021.

### Lockheed Martin

#### LM-100J

On 15 November 2019 Lockheed Martin received additional FAA Type Certificate approvals for their Model L-382J/LM-100J Super Hercules transporter. This certificate allows the civilian version of the C-130J to operate from any commercial airfield in the world. This step guarantees that current L-100 operators can expect the same operational flexibility if they upgrade towards the LM-100J. Launch customer for the LM-100J, Pallas Aviation, is expecting their first and second LM-100J in 2020.

## UAC

Despite the challenging conditions the Sukhoi Super Jet is facing another version of the SSJ100 has been announced. From 2023 the SSJ New is intended to complete assemblies. A year later the modified airplane should be ready for operations. The biggest upgrade will be a new, locally designed and build landing gear system. Rostec's Technodinamika division has been ordered to replace the current Safran landing gear system and all related systems. Following the course of the SSJ New programme, Rostec and UAC have set the marker for the SSJ to become 50-60% build with Russian components by the same 2024 marker. Backed by the Russian trade and industry ministries, maximising import substitution is believed to help the SSJ programme into the future.

## Airliner News



On 31 October South African Airways (SAA) received its first Airbus A350-900. In the evening of that day former Hainan Airlines B-304Z arrived at Johannesburg- O.R. Tambo International Airport. Its new South African registration will be ZS-SDC. Five days later a second ex Hainan Airlines arrived at Johannesburg. Both aircraft are leased from Avolon. Obviously things are not going well with Hainan Airlines as many wide-body aircraft from the airline itself and also its subsidiary Hong Kong Airlines are put in storage or not taken up. For SAA it was obviously the chance to get its hand on new generation aircraft on short notice. Besides these two ex Hainan Airlines A350s, SAA will add a third and fourth A350, which be subleased from Air Mauritius and delivered directly from the assembly line in Toulouse. SAA plans to put the initial A350 into service on its transatlantic route to New York-JFK, replacing the Airbus A340-600. (Johannesburg,O.R. Tambo, 31 October 2019, Jonathan Druion)

## Europe

### The Netherlands

KLM has made some changes when firming up the Letter of Intent it signed with Embraer at the Paris Air Show for a firm order for fifteen E195-E2s and twenty purchase rights. Both companies announced that instead of ordering the new planes directly, KLM signed lease-agreements with Aircastle and ICBC Aviation Leasing for 21 E195-E2s. Air Castle will provide eleven planes; the remaining ten will come from ICBC. Both lessors will source the planes from their existing E2 order books. KLM will, however, keep fourteen purchasing rights for the E195-E2. KLM Cityhopper is expecting to take delivery of its first E195-E2 in the first quarter of next year and will outfit them with 132 seats.

### Germany

Lufthansa Cargo has ordered two additional Boeing 777Fs. Both planes will be delivered next year. At the same time, Lufthansa announced it is accelerating the retirement of its final ten remaining MD-11Fs. The plan is now to phase them out at the end of 2020, which is four years earlier than previously communicated. Lufthansa Cargo currently operates a fleet of seven B777Fs.

### Greece

With the delivery of their first A320neo, Aegean Airlines will introduce a new livery.

On 11 November Astra Airlines ceased all operations due to financial difficulties. The airline was founded in 2008 and operated a fleet of two ATR42s, one ATR72 and one BAe146-300.

As the operations of the Antonov 124 in Russia become more challenging by the month, due to no more support from the Ukraine and Antonov Design Bureau, the Russians have stated to develop their own aerial giant. Moscow's Central Aerohydrodynamic Institute showed their impression of this project early November 2019 with a model named 'Slon', which is going to be used in the wind tunnel for tests. At first the appearance shows a lot of resembling to the current An-124 design with a more streamlined nose and four Aviadvigatel PD-35 engines, a larger version development of the PD-14 engines who currently serve the MC-21 airliner. Current drawings and specifications aim for a payload of 150-180 tons over 7,000 kilometre range. In 2020 two wind tunnels will be used to refine the outlines of the freighter in order to start production of the prototype.

### Iceland

A group of former WOW air co-workers unveiled their new airline on 5 November called PLAY. The airline is in the final stages of obtaining its AOC. It plans to start flying with two Airbus A320s before the end of the year. Initially PLAY will fly to European destinations. But, when the fleet reaches six aircraft by spring of next year, it also plans to add destinations in the US. Although the airlines starts with A320s, the plan is to eventually operate a fleet of A321s.

### Ireland

ACIA Aero Capital, a small leasing company signed a purchase agreement with DeHavilland during the Dubai Air Show for three DHC-8-400s.

### Russia

Aeroflot-subsiary Aurora Airlines was also in the mood for some new planes and put their signature on a Letter of Intent for five DHC-8-400s. This deal was also concluded in Dubai. The airline already operates five 400s.

### Spain

In a surprise move, the International Airline Group announced that Iberia will acquire Air Europa for €1 billion. Once approved by the appropriate authorities, Air Europa will operate, at first, as a separate brand, but managed by Iberia. In the meantime IAG will re-think if the number of brands in Spain needs to be reduced or consolidated. IAG aims to develop Madrid-Barajas into a stronger hub, rivalling Amsterdam, Paris and Frankfurt.

On 21 November, Binter took delivery of their first of five E195-E2s. The aircraft, registered EC-NEZ, was handed over

during a ceremony by Embraer. The airline is planning to start commercial operations out of Las Palmas on 2 December with flights to Lanzarote. Other destinations where Binter will use the type to will be Dakar, Fuerteventura, Ilha do Sal, Murcia, Palma de Mallorca, Pamplona, Santa Cruz de la Palma, Tenerife North, Vigo and Zaragoza.

#### Turkey

At the Dubai Air Show Boeing announced that SunExpress has decided to firm up options for ten additional B737-8s. The airline already had placed orders for 32 of this version of the B737MAX.

#### United Kingdom

easyJet has decided to firm up twelve options for the A320neo, taking their total number of ordered A320neos to 159.

### Africa

#### Egypt

Lessor CIAF has ordered three E190s. Both companies announced the news during this year's Dubai Air Show.

Also announced at the Dubai Air Show was that Egyptair has decided to lease two additional B787-9s from AerCap. The new Dreamliners will be delivered in 2021 and 2022. The airline also decided to change their lease-agreement for seven A320neos into an agreement for seven A321neos.

#### Ghana

The government of Ghana is ramping up its effort to start-up a new national airline which will connect Accra with destinations in Africa, Asia, Europe and North America. A new airline of course needs new planes and therefore the government signed two deals during the Dubai Air Show. One was with Boeing for three B787-9s and the other with DeHavilland for six DHC-8-400s.

#### Nigeria

De Havilland and the Elin Group signed an order for four DHC-8-400Qs. The news was made public at the Dubai Air Show. The Elin Group is a conglomerate with activities in real-estate, gas, shipping, aviation and mining.

Embraer announced at the Dubai Air Show that Air Peace has decided to order three additional E195-E2s, taking their total orders to thirteen.

#### Senegal

Airbus could also note an order for the A220 at the Dubai Air Show as Air Sénégal signed up for eight A220-300s. Deliveries should commence in 2021 and we can probably spot them in Europe as well as the airline said they also want to use the type on a new route to Geneva.

#### South Africa

On 30 October the first of four leased Airbus A350-900s for South African Airways arrived at Johannesburg after being

painted in Singapore. The aircraft is c/n 226 and is registered ZS-SDC. The next A350-900s will be c/n 245, which was also planned for Hainan Airlines and is now in Singapore as B-305A, being painted into South African Airways-livery. The remaining two will be c/n 354 and 365, which were both originally destined for Air Mauritius. C/n 354 is awaiting paint and delivery at Toulouse, while c/n 365 is on the final assembly line. South African Airways' first destination for its new type will be New York-JFK (NY).

### Asia

#### Bangladesh

Biman Bangladesh Airlines has decided to acquire two B787-9s. The aircraft were originally destined for Hainan Airlines which decided not take them up. Biman already operates four B787-8s.

#### Hong Kong

In 2017 the Cathay Pacific Group placed an order for 32 Airbus A321neos for subsidiary Cathay Dragon. Early November the airline, after a "comprehensive review of its airline fleets", announced it decided to split up the order. The first sixteen will still go to Cathay Dragon, but the remaining sixteen will go to the recently acquired HK Express airline. Cathay Dragon expects its A321neos between 2020 and 2022, while HK Express's aircraft will be delivered from 2022 onwards.

#### Indonesia

On 18 November Garuda Indonesia took delivery of their first of fourteen A330-900s. One of the first destinations the airline will deploy the new type to will be Amsterdam-Schiphol.

#### India

On 29 October Airbus could note their second largest order ever as IndiGo signed a firm order for 300 A320neo-family aircraft. The order will consist of A320neo, A321neos and A321XLRs and the airline has the flexibility to choose the exact type when delivery is coming closer. With this latest order, Indigo has ordered a total of 730 Airbus-aircraft so far. They currently operate a fleet of 230 A320/A321s and 22 ATRs.

#### Kazakhstan

Air Astana has ordered 30 B737-8s during the Dubai Air Show. The new planes are destined for their low cost subsidiary FlyArystan, which started operations in May and is currently flying with three former Air Astana A320s.

#### South Korea

Air Premia, one of the newest airlines from South Korea, announced it signed a deal with for five B787-9s. Earlier, the airline announced it had signed a lease agreement with Air Lease Corporation for three B787-9s, and it is planning to lease two more to have a total fleet of ten Dreamliners. Air Premia is planning to commence operations in September.



On 28 September 2019, Air France took delivery of its first Airbus A350-900 F-HTYA. It made its first commercial flight on 7 October from Paris-CDG to Bamako and Abidjan. In the weeks before it made some crew training flights between Paris-CDG, Toulouse and Chateauroux. In total Air France has ordered 28 Airbus A350-900s. (Chateauroux, 28 September 2019, Andre Deblauwe)



The Lion Air Group received its first A330NEO in September 2019. The group ordered nine A330NEOs which will be operated by both Lion Air and Thai Lion Air. The aircraft are configured for 440 passengers in a single-class layout. As of late November 2019 four A330NEOs have been delivered, equally divided between Lion Air and Thai Lion Air. Pictured here is HS-LAL, one of the two Thai Lion Air A330s. (Denpasar, 7 November 2019, Pascal Simon)

ber next year, starting with flights within Asia before flying long-haul destinations in 2021.

#### Vietnam

Vietjet has ordered fifteen A321XLRs with Airbus and also decided to convert five A321neos already on order into XLRs as well. Vietjet will be one of the first airlines to operate the newest variant of the A321, with the first aircraft planned for delivery in 2021-2022. The Vietnamese low-cost airline now has a backlog with Airbus for 126 aircraft: 106 A321neos and 20 A321XLRs. It already operates a fleet of 60 A320s and A321s.

#### Latin America

##### Surinam

Surinam Airways has decided to phase out its sole Airbus A340-300 PZ-TCR on 1 November. The board of the airline has taken this decision after ongoing technical issues with the aircraft, forcing them to cancel flights and lease-in replacement capacity. Until the delivery of its own B777-200ER, Surinam Airways will continue to lease-in aircraft to conduct the Paramaribo-Amsterdam route. The plan is to have the new B777 in place around 9 December. PZ-TCR is c/n 242 and was originally delivered as B-2388 to China Southwest Airlines on 10 December 1998. It became part of the Surinam Airways-fleet on 23 December 2015. Its last flight so far was flight PY994 from Paramaribo to Amsterdam, where it is currently parked.

#### Middle East

##### Israel

On 3 November El Al operated their very last B747-flight, after operating the type for 48 years. The last flight was conducted by B747-400 4X-ELC. To commemorate the occasion, the plane drew the outline of a B747 near Cyprus while on the way back to Tel Aviv from Rome. The outline could be seen on sites like Flightradar24.

##### Oman

Lessor GECAS has announced that they have signed a lease-agreement with SalamAir for two A321neos. The airline already flies with three A320s and four A320neos.

##### United Arab Emirates

The Air Arabia Group did some shopping with Airbus during the Dubai Air Show and decided to order 120 narrowbody aircraft; 73 A320neos, 27 A321neos and 20 A321XLRs. Deliveries of this order are to start in 2024.

Emirates has placed a firm order for 50 A350-900s. The order was announced at the Dubai Air Show and is replacing the airline's previously announced Memorandum of Under-

standing for 45 A330-900s and 30 A350-900s. The first A350 is expected to arrive in 2023. Emirates has also decided to change 30 outstanding orders for six B777-300ERs and 24 B777Xs into orders for 30 B787-9s. The Dreamliners are to be delivered from 2023 onwards. Despite reducing their orders for the B777X, Emirates remains the biggest customer of the latest version of the B777 and now has 126 B777X on order.

Dubai-based lessor Palma Holding announced at the Dubai Air Show that they have signed a Letter of Intent with De Havilland for twenty DHC-8-400Qs.

#### North America

##### Canada

During the winter months Air Transat normally leased in capacity from Thomas Cook, but now that this airline collapsed, Air Transat was forced to look for alternatives. Therefore the airline announced that they signed a lease-agreement with Air Lease Corporation for six Airbus A321-200s. All planes should be delivered before the end of the year.

##### United States of America

Airbus and GECAS did some business during the Dubai Air Show which resulted in an order for twelve A330neos and twenty A321XLRs. Thirteen of the A321XLRs are new orders, the remaining seven are conversions of current A321neos the lessor already had on order.

Joining TAM and Virgin Atlantic with a Star Wars-logojet is United Airlines. On 7 November they unveiled their special liveried B737-800 N36272. The livery differs on both sides of the plane.

#### Oceania

##### Australia

The CEO of Qantas has said that they are not happy with the offers of Boeing and Airbus for their so-called "Project Sunrise", in which the airline seeks twelve new widebodies to conduct ultra longhaul flights with. The airline has now asked the manufacturers to "sharpen their pencils" and hopes to decide early next year between the A350 and B777X. Earlier Qantas planned to place an order at the end of this year.

##### Fiji

Fiji Airways has taken delivery of their first of two A350-900s on 15 November. First stop of the aircraft was the Dubai Air Show where she was part of the static display.

#### Aircraft orders

Underlining means an update compared to last month. We only report firm orders when they are officially announced by the aircraft manufacturers.

**Airbus 2019 firm orders**

AerCap	5	A320neo	
Aer Lingus	6	A321neo	
AirAsia X Malaysia	30	A321neo	
	12	A330-900	
Air Austral	3	A220-300	
Air China	20	A350-900	
Air Tanzania	2	A220-300	
Air Vanuatu	2	A220-100	
	2	A220-300	
All Nippon Airways	18	A320neo	
Atlantic Airways	2	A320neo	
American Airlines	20	A321neo	
Aviation Capital Group	3	A320neo	
China Airlines	11	A321neo	
DAE Capital	2	A350-900	
Delta Air Lines	5	A220-100	
Iberia	2	A320neo	
	8	A321neo	
IndiGo	87	A320neo	
	213	A321neo	
Jetblue Airways	10	A220-300	
Jetsmart	12	A321neo	
Lufthansa	20	A350-900	
Lufthansa Technik (for Luftwaffe)	3	A350-900	
Private	1	ACJ319neo	
	2	ACJ320neo	
	1	ACJ350-900	
Qantas	10	A321neo	
Saudia	30	A320neo	
Starlux	5	A350-900	
	12	A350-1000	
Tigerair Taiwan	7	A320neo	
Uganda Airlines	2	A330-800	
Unidentified	10	A220-100	
	4	A220-300	
	43	A320neo	
	53	A321neo	(+15)
	12	A330-900	
Virgin Atlantic	8	A330-900	
Wizz Air Hungary	20	A321neo	
Total	718		(+416)

**ATR 2019 firm orders**

Air Tahiti	2	ATR42-600S	
Avation	8	ATR72-600	
Elix Aviation Capital	10	ATR42-600S	
Nordic Aviation Capital	35	ATR72-600	
Tunisair Express	3	ATR72-600S	
Total	58		

**Boeing 2019 firm orders**

Air Lease Corporation	6	B787-9	(+5)
Air New Zealand	8	B787-10	
Bamboo Airways	10	B787-9	
Boeing Capital Corporation	1	B787-9	
British Airways	18	B777-9	
China Airlines	6	B777F	
DHL	4	B777F	
FedEx	6	B767-300F	
Korean Air	10	B787-9	
	10	B787-10	
Lufthansa	20	B787-9	
Lufthansa Cargo	2	B777F	
Private	2	BBJMAX	
	2	B787-9	
	5	B777F	
Qatar Airways	4	P-8A	
Royal Air Force	4	P-8A	
Royal Norwegian Air Force	5	P-8A	
Turkmenistan Airlines	1	B777-200LR	
Unidentified	17	B737	(+1)
	1	B767-300F	
	2	B777-300ER	
	7	B787-9	(+2)
	4	B787-10	
	4	B767-300F	
UPS	15	KC-46A	
US Air Force	10	P-8A	
US Navy	10	P-8A	
Total	180		(+10)

**Bombardier & De Havilland Canada 2019 firm orders**

ACIA Aero Capital	3	DHC-8-400Q	
Air Tanzania	1	DHC-8-400Q	
Chorus Aviation	9	CRJ900	
Elin Group	4	DHC-8-400Q	
Government of Ghana	6	DHC-8-400Q	
Palma Holding	20	DHC-8-400Q	
Petroleum Air Services	1	CRJ900	
TAAG Angola Airlines	6	DHC-8-400Q	
Total	50		(+33)

**Embraer 2019 firm orders**

Air Peace	13	E195-E2	(+3)
Binter	2	E195-E2	
CIAE	3	E190	
Fuji Dream Airlines	2	E175	
SkyWest Airlines	7	E175	
United Airlines	20	E175	
Total	47		(+6)

Credits: Aviator.aero, CH-Aviation, Scramble Messageboard, Airbus, Boeing, ATR, Bombardier, De Havilland Canada, Embraer and Flight Global.



Jazeera Airways was formed in 2004 as the first non-government owned private airline in the Middle East. With a fleet of Airbus A320s it operates a range of high-demand business, leisure, family, and weekend services throughout the Middle East and North Africa. In 2016 Jazeera announced it would start long-haul operations, most likely to Europe. Initially the plans were to start code-sharing with other airlines for this, but with the delivery of the A320NEO they started a London-Gatwick service with their own aircraft. Future plans are Frankfurt, Paris, Zurich and Malaga. As of late November 2019 they have a fleet of nine A320CEOs and two A320NEOs. Pictured here is Airbus A320NEO 9K-CBB which was delivered on 18 October 2019. (London-Gatwick, 27 October 2019, Duncan Morley)



Early September Egyptair received its first Airbus A220-300. It was the first out of an order for twelve aircraft. As of late November six aircraft of this order have already been delivered to the Egyptians. One of them is SU-GEZ which made a fuel stop at Ostend during its delivery flight to Cairo. (Ostend, 20 October 2019, Nik Deblauwe)

A220	-300	<b>55061</b>	SU-GFA	EgyptAir. Delivered on 26 October.
	-300	<b>55062</b>	SU-GFD	EgyptAir. Delivered on 7 November.
	-300	<b>55063</b>	SU-GFB	EgyptAir. Delivered on 16 November.
A319	-231	<b>308</b>	LZ-EAB	Electra Airways, ex Enter Air. Returned from lease on 29 October.
	-131	<b>1604</b>	N824AC	Aero Capital Solutions, ex G-EUOH of British Airways. Registered in the US on 21 October. Aircraft was ferried to St Athan for storage and scrapping on 5 September.
	-111	<b>2870</b>	OE-IIN	Stellar Aircraft Trading, ex F-HBAL of Aigle Azur. Registered on 19 November. Aircraft has been stored at Woensdrecht since 11 November.
A320	-231	<b>53</b>	ZS-GAR	Global Aviation Operations, ex Corendon Airlines. Returned from lease on 1 November.
	-231	<b>54</b>	ZS-GAW	Global Aviation Operations, ex Corendon Airlines. Returned from lease on 4 November.
	-231	<b>64</b>	ZS-GAL	Global Aviation Operations, ex Corendon Airlines. Returned from lease on 3 November.
	-231	<b>76</b>	ZS-GAS	Global Aviation Operations, ex Corendon Airlines. Returned from lease on 1 November.
	-231	<b>81</b>	ZS-GAZ	Global Aviation Operations, ex Corendon Airlines. Returned from lease on 2 November.
	-212	<b>528</b>	LY-COM	Avion Express, ex SunExpress. Returned from lease on 28 October.
	-212	<b>528</b>	9H-AMB	Avion Express Malta, ex LY-COM of Avion Express. Transferred in November.
	-232	<b>709</b>	LY-VEQ	Avion Express, ex SunExpress. Returned from lease on 7 October.
	-233	<b>902</b>	LY-VEI	Avion Express, ex SunExpress. Returned from lease on 5 November.
	-214	<b>921</b>	LY-NVZ	Avion Express, ex SunExpress. Returned from lease on 9 November.
	-214	<b>1005</b>	LY-VEW	Avion Express, ex 9H-AMA of Avion Express Malta. Reregistered early November.
	-214	<b>1370</b>	LY-NVR	Avion Express, ex SunExpress. Returned from lease on 5 November.
	-214	<b>1725</b>	ES-SAS	SmartLynx Estonia, ex ES-SAS of easyJet. Returned from lease on 20 October.
	-214	<b>1757</b>	LY-NVS	Avion Express, ex SunExpress. Returned from lease on 1 November.
	-232	<b>1823</b>	YL-LCP	Avion Express, ex SunExpress Germany. Returned from lease on 28 October.
	-232	<b>1909</b>	LY-NVY	Avion Express, ex SunExpress. Returned from lease on 10 November.
	-232	<b>1998</b>	LY-VEL	Avion Express, ex SunExpress. Returned from lease on 28 October.
	-232	<b>2085</b>	LY-NVV	Avion Express, ex SunExpress. Returned from lease on 28 October.
	-232	<b>2085</b>	LY-NVV	VietJetAir, ex of Avion Express. Delivered on lease on 16 November.
	-214	<b>2123</b>	ES-SAV	SmartLynx Estonia, ex ES-SAV of TUI fly Belgium. Returned from lease on 7 November.
	-214	<b>2123</b>	ES-SAV	Albatros Airlines, ex SmartLynx Estonia. Delivered on lease on 12 November.
	-232	<b>2173</b>	LY-NVW	Avion Express, ex SunExpress. Returned from lease on 28 October.
	-232	<b>2173</b>	LY-NVW	VietJetAir, ex of Avion Express. Delivered on lease on 16 November.
-214	<b>2233</b>	YL-LCT	SmartLynx, ex SunExpress Germany. Returned from lease on 30 October.	
-232	<b>2724</b>	SX-ODS	Orange2fly, ex Corendon Airlines. Returned from lease on 4 November.	
-214	<b>3272</b>	OE-LOX	LaudaMotion, ex RP-C3244 of Cebu Pacific Air. Delivered on 20 November.	
-214	<b>3891</b>	TC-FHY	Bamboo Airways, ex Freebird Airlines. Delivered on lease on 10 November.	
-214	<b>3949</b>	LY-NVT	Avion Express, ex SunExpress. Returned from lease on 5 November.	
-214	<b>4392</b>	AP-BMX	PIA - Pakistan International Airlines, ex HZ-AS20 of Saudia – Saudi Arabian Airlines. Delivered on 20 November.	
-214	<b>4661</b>	EC-LLJ	Flyadeal, ex Vueling Airlines. Delivered on lease on 12 November.	
-233	<b>4758</b>	OE-IEF	Avolon, ex F-HAAF of Aigle Azur. Registered on behalf of the lessor on 25 October. Aircraft has been stored at Woensdrecht since 4 October.	
-214	<b>4767</b>	OE-IEE	Avolon, ex F-HAQD of Aigle Azur. Registered on behalf of the lessor on 25 October. Aircraft has been stored at Woensdrecht since 4 October.	
-214	<b>5533</b>	EC-LVO	Flyadeal, ex Vueling Airlines. Delivered on lease on 12 November.	
-214	<b>5616</b>	EC-LVU	Flyadeal, ex Vueling Airlines. Delivered on lease on 12 November.	
-214	<b>5673</b>	TC-FHN	Bamboo Airways, ex Freebird Airlines. Delivered on lease on 10 November.	
-214	<b>6444</b>	SU-AAF	Air Arabia Egypt, ex A6-AOF of Air Arabia. Transferred on 6 November.	
-214	<b>7104</b>	OE-ICD	easyJet Europe, ex G-EZPI of easyJet. Transferred to Austria on 29 October.	
-232	<b>8151</b>	HA-LSC	Wizz Air, ex G-WUKB of Wizz Air UK. Transferred on 28 October.	
-251N	<b>9074</b>	SE-ROS	SAS Scandinavian Airlines. Delivered in old SAS colours on 30 October. Test registration was D-AUBM.	
-251N	<b>9111</b>	G-UZLI	easyJet. Delivered on 12 November. Test registration was D-AXAU.	

	-251N	<b>9116</b>	SE-ROT	SAS Scandinavian Airlines. Delivered in old SAS colours on 6 November. Test registration was D-AUBX.
	-271N	<b>9287</b>	EC-NFK	Vueling Airlines. Delivered on 26 October. Test registration was F-WWBZ.
	-251N	<b>9312</b>	SE-ROJ	SAS Scandinavian Airlines. Delivered in the new colours on 15 November. Test registration was F-WWBC.
A321	-211	<b>1932</b>	OY-VKC	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>1960</b>	OY-VKD	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>1994</b>	D-AEUB	Eurowings, ex OE-LCS of LaudaMotion. Delivered on 6 November.
	-212	<b>2115</b>	LY-VEG	VietJetAir, ex of Avion Express. Delivered on lease on 16 November.
	-231	<b>2216</b>	YL-LCV	SmartLynx, ex Jet2. Returned from lease on 2 November.
	-231	<b>2234</b>	LY-VEA	VietJetAir, ex of Avion Express. Delivered on lease on 16 November.
	-232	<b>2496</b>	YR-DSI	Just Us Air, ex YR-DSI of Jazeera Airways. Returned from lease on 1 November.
	-211	<b>2903</b>	YL-LDA	SmartLynx, ex Condor. Returned from lease on 11 November.
	-211	<b>3708</b>	G-POWU	Titan Airways, ex Jet2. Returned from lease on 7 November.
	-211	<b>3749</b>	G-POWV	Titan Airways, ex Jet2. Returned from lease on 7 November.
	-211	<b>3830</b>	G-POWN	Titan Airways, ex Jet2. Returned from lease on 7 November.
	-211	<b>4461</b>	YL-LCY	SmartLynx, ex Condor. Returned from lease on 11 November.
	-211	<b>5044</b>	VN-A585	Bamboo Airways, ex VQ-BOH of Aeroflot. Delivered on 2 November.
	-211	<b>5271</b>	VN-A597	Bamboo Airways, ex YL-LDC of SmartLynx. Delivered on 31 October.
	-211	<b>5603</b>	OE-IDS	ALC - Air Lease Corporation, ex G-TCDB of Thomas Cook Airlines. Registered on behalf of the lessor on 13 November. Aircraft has been stored at Shannon since 30 September.
	-211	<b>5872</b>	OE-IDT	ALC - Air Lease Corporation, ex G-TCDC of Thomas Cook Airlines. Registered on behalf of the lessor on 8 November. Aircraft has been stored at Shannon since 30 September.
	-211	<b>6114</b>	OE-IEH	ALC - Air Lease Corporation, ex G-TCDF of Thomas Cook Airlines. Registered on behalf of the lessor on 8 November. Aircraft has been stored at Shannon since 3 October.
	-211	<b>6314</b>	OY-TCD	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>6342</b>	OY-TCE	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>6351</b>	OY-TCF	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>6376</b>	OE-IDP	Avolon, ex G-TCDP of Thomas Cook Airlines. Registered on behalf of the lessor on 20 November. Aircraft has been stored at Shannon since 4 October.
	-211	<b>6389</b>	OY-TCG	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>6438</b>	OY-TCH	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-211	<b>6468</b>	EI-GRC	GECAS, ex OY-TCI of Thomas Cook Airlines Scandinavia. Registered on behalf of the lessor early November. Aircraft has been stored at Toulouse-Francazal since 26 September.
	-211	<b>6515</b>	OE-IEI	ALC - Air Lease Corporation, ex G-TCDH of Thomas Cook Airlines. Registered on behalf of the lessor on 8 November. Aircraft has been stored at Shannon since 1 October.
	-211	<b>6548</b>	OE-IDF	ALC - Air Lease Corporation, ex G-TCDK of Thomas Cook Airlines. Registered on behalf of the lessor on 8 November. Aircraft has been stored at Shannon 30 September.
	-211	<b>7237</b>	C-GEZX	Air Transat, ex TF-GPA of WOW air. Delivered on 19 November.
	-251NX	<b>8923</b>	CS-TJO	TAP Air Portugal. Delivered on 14 November. Test registration was D-AVYE.
	-251NX	<b>8955</b>	VP-BOP	Ural Airlines. Delivered on 1 November. Test registration was D-AZAK.
	-271NX	<b>8957</b>	TC-LSJ	Turkish Airlines. Delivered on 1 November. Test registration was D-AZAR.
	-251NX	<b>8984</b>	G-NEOW	British Airways. Delivered on 25 October. Test registration was D-AVYW.
	-251NX	<b>9055</b>	CS-TXD	TAP Air Portugal. Delivered on 16 November. Test registration was D-AVXZ.
	-271NX	<b>9082</b>	TC-LSK	Turkish Airlines. Delivered on 1 November. Test registration was D-AYAY.



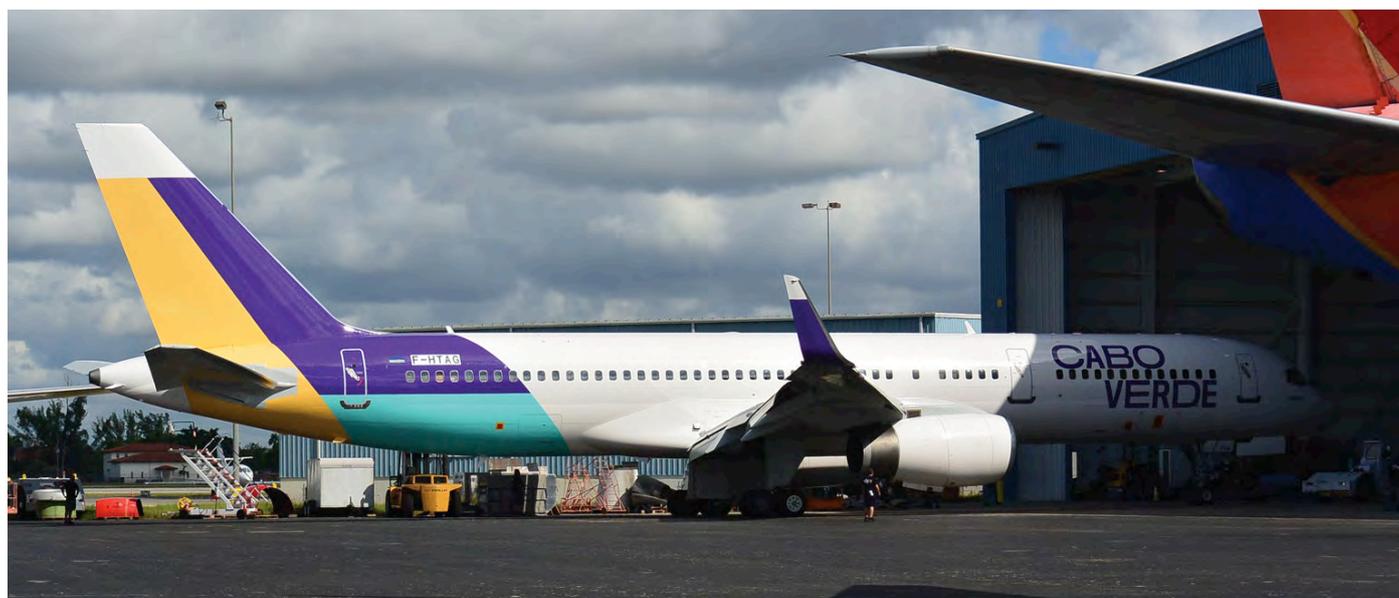
Joy Air is a Chinese regional airline majority owned by aircraft manufacturer AVIC1. It currently operates a fleet of 25 MA-60 aircraft and has outstanding orders for ten ARJ21s and twenty C919s. But besides the all Chinese aircraft fleet, it recently added its first Western built aircraft in the form of a brand new 737-800. This aircraft will get company from two ex Norwegian 737-800s. One of them is LN-NGT, which is seen here in full Joy Air colours at Shannon. It will be registered as B-20E6 upon delivery to China. (3 November 2019, Adrian Kissane)



This seventeen year old Boeing 737-800, with registration N37267, is the first aircraft that was painted in United's new colour scheme, which was officially revealed on 24 April 2019. The airline itself describes the new livery as "an evolution, not revolution". The livery has lost its golden lines and a stylised cheatline was added, reducing the grey area to a smaller section of the belly and allows the nose to be all white. The old Continental globe is still part of the colour scheme and has not been reduced in size. The lower cheatline allows the United titles to amplify in size. (Fort Lauderdale-Hollywood (FL), 13 November 2019, Walter Heukensfeld)

A330	-243	<b>309</b>	OY-VKF	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-343X	<b>349</b>	OY-VKG	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-343X	<b>356</b>	OY-VKH	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-343X	<b>357</b>	OY-VKI	Sunclass Airlines, ex Thomas Cook Airlines Scandinavia. Registered under the new name on 31 October.
	-243F	<b>610</b>	SU-GCF	EgyptAir Cargo, ex EgyptAir. Re-delivered after freighter conversion at Dresden on 9 November.
	-323E	<b>965</b>	EI-GPJ	I Fly, ex F-OONE of Air Caraïbes. Delivered on 15 November.
	-343E	<b>1012</b>	C-GEGI	Air Canada, ex CS-TOW of TAP Air Portugal. Delivered on 25 October.
	-243	<b>1016</b>	OE-IEJ	ALC - Air Lease Corporation, ex G-TCXD of Thomas Cook Airlines. Registered on behalf of the lessor early November. Aircraft has been stored at Lake City (FL) since 26 October.
	-343E	<b>1156</b>	C-GKUH	Air Canada, ex 9V-STR of Singapore Airlines. Delivered on 28 October.
	-343E	<b>1453</b>	9H-STY	Hi Fly Malta, ex 9V-STY of Singapore Airlines. Delivered on 2 October.
	-243	<b>1601</b>	G-VYGM	AirTanker, ex Jet2. Returned from lease on 8 November.
	-941N	<b>1895</b>	PR-ANY	Azul Linhas Aéreas Brasileiras. Delivered on 30 October. Test registration was F-WWKR.
	-941N	<b>1925</b>	CS-TUP	TAP Air Portugal. Delivered on 8 October. Test registration was F-WWCG.
	-941N	<b>1939</b>	HS-LAL	Thai Lion Air. Delivered on 31 October. Test registration was F-WWYX.
	-941N	<b>1947</b>	PK-GHE	Garuda Indonesian Airways. Delivered on 16 November. First A330NEO for Garuda. Test registration was F-WWKV.
A340	-642	<b>765</b>	2-ELAJ	European Aviation Group, ex G-VYOU of Virgin Atlantic Airways. Registered on the Isle of Guernsey early November. Aircraft has been stored at Bournemouth since 23 August.
	-642	<b>933</b>	EC-NFP	Plus Ultra Líneas Aéreas, ex 2-FIEX of European Aviation Group and former A6-EHJ of Etihad Airways. Delivered on 20 November. First A340-600 in Plus Ultra's fleet.
A350	-941	<b>226</b>	ZS-SDC	South African Airways, ex B-304Z of Hainan Airlines. Delivered on 31 October.
	-941	<b>245</b>	ZS-SDD	South African Airways, ex B-305A of Hainan Airlines. Delivered on 5 November.
	-941	<b>299</b>	DQ-FAI	Fiji Airways. Delivered on 15 November. First A350 for Fiji Airways. Aircraft originally intended for Hong Kong Airlines as B-LGL but not taken up by this airline. Test registration was F-WZFR.
	-941	<b>347</b>	B-30AL	China Southern Airlines. Delivered on 9 November. Test registration was F-WZNE.
	-941	<b>348</b>	9V-SMZ	Singapore Airlines. Delivered on 30 October. Test registration was F-WZNA.
	-941	<b>349</b>	F-HYTB	Air France. Delivered on 6 November. Test registration was F-WZFQ.
	-941	<b>352</b>	JA04XJ	Japan Airlines International. Delivered on 26 October. Test registration was F-WZNP.
	-941	<b>354</b>	ZS-SDE	South African Airways. Delivered on 18 November. Aircraft originally intended for Air Mauritius as 3B-NBR, but not taken up by this airline.. Test registration was F-WZHG.
	-941	<b>357</b>	B-30C0	China Southern Airlines. Delivered on 14 November. Test registration was F-WZHC.
A380	-842	<b>259</b>	A6-EVJ	Emirates. Delivered on 8 November. Test registration was F-WWSA.
BAe146	-200A	<b>E2108</b>	VH-SYO	Pionair, ex D-AZFR of WDL Aviation. Delivered on 8 November as D-AZFR.
	-300QT	<b>E3150</b>	VH-SAJ	Pionair, ex D-AJAM of WDL Aviation. Delivered half September, registered on 24 October.
B737	-3M8F	<b>24020</b>	G-HEVI	TAG Aviation UK, ex N473SR of Southern Aircraft Consultancy Inc. Trustee. Registered on 25 October.
	-548	<b>24919</b>	9H-VOX	Maleth-Aero, ex G-MADA of Opel Investments. Delivered on 28 October.
	-33VQC	<b>29333</b>	N112CG	Bank of Utah, ex F-GZTA of ASL Airlines France. Registered on 12 November. Parked at Tampa (FL) since 7 November.
	-8Q8	<b>29351</b>	C-FTAH	Sunwing Airlines, ex OK-TVJ of Smartwings. Delivered on winter lease on 18 November as OK-TVJ.
	-8FH	<b>29669</b>	C-GTVF	Sunwing Airlines, ex OK-TVF of Travel Service. Delivered on winter lease on 4 November as OK-TVF.
	-8Q8	<b>30703</b>	C-FDBD	Sunwing Airlines, ex TUI fly Netherlands. Returned from summer lease on 29 October.
	-7BC (BBJ1)	<b>30791</b>	SX-BBJ	Amjet Executive, ex 9H-BBJ of Privajet. Delivered in November.
	-8BK	<b>33016</b>	OM-IEX	AirExplore, ex Smartwings. Returned from summer lease on 12 October.
	-8BK	<b>33018</b>	OM-KEX	AirExplore, ex Sun d'Or International Airlines. Returned from summer lease on 22 October.
	-86N	<b>33677</b>	N447XC	Bank of Utah, ex I-NEOX of Neos. Registered on 12 November. Ferried in October to Jinan for freighter

-85P	<b>33981</b>	G-DRTM	conversion.
-8K2	<b>34171</b>	PH-HSA	Jet2, ex EC-KCG of Air Europa. Delivered on 20 November.
-808	<b>34704</b>	C-FTDW	GOL - Linhas Aéreas Inteligentes, ex Transavia Airlines. Delivered on winter lease 9 November.
-86N	<b>35209</b>	G-DRTR	Sunwing Airlines, ex TUI fly Netherlands. Returned from summer lease on 29 October.
-7K5	<b>35282</b>	PR-GEQ	Jet2, ex B-5175 of Air China. Delivered on 6 November.
-8FN	<b>37076</b>	C-GKVL	GOL - Linhas Aéreas Inteligentes, ex OO-JOS of TUI fly Belgium. Delivered on 29 October.
-8K5	<b>37249</b>	C-GQWM	Sunwing Airlines, ex OK-TVL of Smartwings. Delivered on winter lease 1 November as OK-TVL.
-86N	<b>38025</b>	C-GKVU	Sunwing Airlines, ex G-TAWM of TUI Airways. Delivered on winter lease 3 November as G-TAWM.
-8JP	<b>39002</b>	SE-RRD	Sunwing Airlines, ex OK-TVU of Smartwings. Delivered on winter lease 9 November as OK-TVU.
-8JP	<b>39026</b>	TC-JZN	Norwegian Air Sweden, ex LN-DYD of Norwegian. Transferred on 31 October.
-8JP	<b>39047</b>	SE-RRP	Turkish Airlines, ex LN-NGO of Norwegian. Delivered on 15 November.
-8JP	<b>39162</b>	SE-RRA	Norwegian Air Sweden, ex LN-DYP of Norwegian. Transferred on 25 October.
-8JP	<b>39163</b>	SE-RRB	Norwegian Air Sweden, ex LN-DYA of Norwegian. Transferred on 28 October.
-8JP	<b>39164</b>	SE-RRC	Norwegian Air Sweden, ex LN-DYB of Norwegian. Transferred on 29 October.
-81D	<b>39438</b>	C-GNCH	Norwegian Air Sweden, ex LN-DYC of Norwegian. Transferred on 30 October.
-81D	<b>39440</b>	C-FFPH	Sunwing Airlines, ex TUI Airways. Returned from summer lease on 1 November.
-8JP	<b>40867</b>	SE-RRT	Sunwing Airlines, ex TUI Airways. Returned from summer lease on 28 October.
-8JP	<b>40869</b>	SE-RRS	Norwegian Air Sweden, ex EI-FHT of Norwegian Air International Transferred on 12 November.
-800	<b>41353</b>	C-GLRN	Norwegian Air Sweden, ex LN-DYQ of Norwegian. Transferred on 4 November.
-8GS	<b>41608</b>	C-GFEH	Sunwing Airlines, ex C-GLRN of TUI Airways. Returned from summer lease on 31 October.
-8K5	<b>41662</b>	C-GAWV	Sunwing Airlines, ex TUI Airways. Returned from summer lease on 27 October.
-8K5	<b>41663</b>	G-TAWW	Sunwing Airlines, ex G-TAWV of TUI Airways. Delivered on winter lease 5 November as G-TAWV.
-8Q8	<b>41795</b>	OK-TSD	Sunwing Airlines, ex TUI Airways. Delivered on winter lease 12 November.
-8AS	<b>44688</b>	SP-RSZ	Air Transat, ex Smartwings. Delivered on winter lease 20 November.
-8AS	<b>44690</b>	SP-RKA	Ryanair Sun, ex EI-FEG of Ryanair. Transferred 16 November.
-8AS	<b>44709</b>	9H-QBL	Ryanair Sun, ex EI-FEI of Ryanair. Transferred 15 November.
-8AS	<b>44711</b>	9H-QBS	Malta Air, ex EI-FIZ of Ryanair. Transferred 13 November.
-8AS	<b>44712</b>	9H-QBU	Malta Air, ex EI-FOG of Ryanair. Transferred 13 November.
-8AS	<b>44714</b>	9H-QBO	Malta Air, ex EI-FOI of Ryanair. Transferred 6 November.
-8AS	<b>44715</b>	9H-QBP	Malta Air, ex EI-FOC of Ryanair. Transferred 19 November.
-8AS	<b>44717</b>	9H-QBT	Malta Air, ex EI-FOD of Ryanair. Transferred 5 November.
-8AS	<b>44723</b>	9H-QCB	Malta Air, ex EI-FOH of Ryanair. Transferred 6 November.
-8AS	<b>44738</b>	SP-RKC	Malta Air, ex EI-FOP of Ryanair. Transferred 7 November.
-8AS	<b>44744</b>	9H-QCS	Ryanair Sun, ex EI-FRD of Ryanair. Transferred 15 November.
-8AS	<b>44747</b>	9H-QCY	Malta Air, ex EI-FRN of Ryanair. Transferred 2 November.
-800	<b>44756</b>	9H-QDQ	Malta Air, ex EI-FRV of Ryanair. Transferred 8 November.
-800	<b>44823</b>	9H-QEH	Malta Air, ex EI-FTF of Ryanair. Transferred on 25 October.
-800	<b>44824</b>	9H-QEF	Malta Air, ex EI-GJE of Ryanair. Transferred 19 November.
-800	<b>62157</b>	PR-GZL	Malta Air, ex EI-GJC of Ryanair. Transferred 15 November.
-800	<b>62577</b>	PR-GZJ	GOL - Linhas Aéreas Inteligentes, ex PH-HXK of Transavia Airlines. Delivered on winter lease on 8 November as PH-HXK.
-800	<b>63623</b>	PR-GZR	GOL - Linhas Aéreas Inteligentes, ex PH-HXO of Transavia Airlines. Delivered on winter lease on 7 November as PH-HXO.
			GOL - Linhas Aéreas Inteligentes, ex PH-HXN of Transavia Airlines. Delivered on winter lease on 1 November as PH-HXN.



On 5 May 2018 TACV-Cabo Verde Airlines announced its adoption of its new brand name Cabo Verde Airlines (without TACV). The new name was probably the result of the strategic partnership between the then TACV, the Cabo Verde government and the Icelandair Group which was signed a year earlier in August 2017, in which the latter becoming responsible for network planning, marketing, sales and distribution planning, as well as the restructuring of the fleet. Since 2017 the Cabo Verde fleet has been restructured and now consists of four Boeing 757-200s. Two of them have already been delivered and are ex Icelandair and ex OpenSkies 757s. Two will be delivered in the coming months and are ex American Airlines and ex LaCompagnie. All four aircraft will have the same design, but with different colours. Seen here is ex LaCompagnie 757 F-HTAG, which was pictured by Walter Heukensfeld at Opa locka (FL) where it was for some pre-delivery maintenance. Its new "D4-" registration is not yet known. (5 November 2019)

B747	-409F	<b>30762</b>	OE-ILC	ASL Airlines Belgium, ex B-18705 of China Airlines. Delivered on 12 November.
	-8F	<b>64264</b>	N618UP	UPS - United Parcel Service. Delivered on 25 October. Line # 1556.
B757	-2Q8	<b>27623</b>	EI-LBS	ASL Airlines Ireland. Lease to Aer Lingus ended 11 November.
	-236	<b>29942</b>	N205SA	Bank of Utah, ex G-OOBG of TUI Airways. Registered on 5 November. Destined for SF Airlines.
B767	-33AER	<b>27477</b>	VP-BRA	Azur Air, ex 4X-EAL of El Al Israel Airlines. Delivered on 14 November.
	-306ER	<b>27610</b>	I-NDOF	Neos, ex I-NDOF of Arkia Israeli Airlines. Returned from lease on 27 October.
	-304ERSF	<b>28042</b>	N842DH	DHL Airways, ex EI-FMR of Air Italy. Delivered after freighter conversion on 26 October.
	-300F	<b>63111</b>	N180FE	FedEx Express. Delivered on 8 November. Line # 1195.
	-300F	<b>65907</b>	N368UP	UPS - United Parcel Service. Delivered on 25 October. Line # 1194.
B777	-300ER	<b>61513</b>	JA794A	ANA - All Nippon Airways. Delivered on 26 October. Line # 1593.
	-300ER	<b>61516</b>	JA797A	ANA - All Nippon Airways. Delivered on 29 October. Line # 1627.
	-300ER	<b>65419</b>	B-20DM	China Southern Airlines. Delivered on 20 November. Line # 1630.
	-F	<b>66338</b>	A7-BFT	Qatar Airways. Delivered on 8 November. Line # 1628.
B787	-8	<b>34832</b>	JA822J	ZIPAIR Tokyo, ex JA822J of Japan Airlines International. Delivered on 27 September.
	-9	<b>38483</b>	CC-BGO	LATAM Airlines Chile. Delivered at 13 November. Line # 922.
	-10	<b>40051</b>	HZ-AR25	Saudia - Saudi Arabian Airlines. Delivered on 29 October. Line # 918.
	-10	<b>42492</b>	PH-BKD	KLM Royal Dutch Airlines. Delivered on 12 November. Line # 926.
	-9	<b>62144</b>	SP-LSG	LOT Polish Airlines. Delivered on 31 October. Line # 920.
	-9	<b>62175</b>	ET-AXK	Ethiopian Airlines. Delivered on 17 November. Line # 930.
	-9	<b>64293</b>	G-TUIN	TUI Airways. Delivered on 14 November. Line # 916.
	-9	<b>64294</b>	G-TUIO	TUI Airways. Delivered on 19 November. Line # 932.
	-9	<b>65092</b>	XA-MFG	AeroM�xico. Delivered on 1 November. Line # 923.
	-9	<b>65249</b>	EC-NEI	Air Europa. Delivered on 30 October. Line # 914.
	-9	<b>66074</b>	VH-ANJ	QANTAS. Delivered in a 100 <sup>th</sup> Anniversary scheme on 7 November. Line # 929.
	-8	<b>66133</b>	5H-TCJ	Air Tanzania. Delivered on 25 October. Line # 925.
CRJ	CL-850	<b>8080</b>	N602SJ	N602SJ LLC, ex ZS-ZOR of ExecuJet South Africa. Registered on 14 November.
	1000	<b>19048</b>	EC-MLC	Air Nostrum, ex Croatia Airlines. Returned from lease on 27 October.
ERJ	135BJ	<b>14500825</b>	G-PRFX	Flexjet, ex N925FL of Flight Options. Registered on 18 November.
	135BJ	<b>14501238</b>	D-AIRZ	Air Hamburg Private Jets. Delivered on 6 November.
	190LR	<b>19000061</b>	D-AJHW	German Airways. Per 1 November flying as German Airways, operated by WDL Aviation.
	190E2STD	<b>19020022</b>	HB-AZA	Helvetic Airways. Delivered on 28 October.
MD-11	F	<b>48805</b>	N738BC	Boeing Aircraft Holding Co., ex D-ALCM of Lufthansa Cargo. Registered on 13 November. Parked at Victorville (CA) since 28 October.

Credits: Airline-List, FlightAscend, Planespotters and Skyliner.

## Commuters

ATR42	-300F	<b>093</b>	OE-HZA	Zimex Aviation Austria, ex F-GVZJ of Aero4M. Delivered on 3 November.
ATR72	-212F	<b>570</b>	G-LMRZ	Loganair, ex OY-YAN of NAC Aviation 8 Ltd. Delivered on 11 November.
	-212A	<b>879</b>	EC-MUJ	Canaryfly, ex EC-MUJ of Air Europa Express. Per 12 October.
	-212A	<b>982</b>	EC-MHJ	Canaryfly, ex EC-MHJ of Air Europa Express. Per 7 October.
	-212A	<b>1075</b>	ES-ATI	Nordica, ex EI-GIX of Celestial Aviation Trading 71 Ltd. Delivered on 19 November. Operated for SAS in full SAS colours.
	-212A	<b>1145</b>	EC-NFR	Air Nostrum, ex 2-ATRD of NAC Aviation 29 DAC. Delivered on 11 November.
	-212A	<b>1198</b>	EC-NFT	Air Nostrum, ex 2-ATRE of NAC Aviation 29 DAC.
BAe	4100	<b>41014</b>	G-ISAY	AirTime AB, Sweden, ex SX-SEH of Sky Express. Registered on 28 October. Currently stored at Cerione, Italy.

## Propliners

Convair	580	<b>2</b>	N580HW	Ex Honeywell testbed, retired in April 2019. Ferried to Kelowna (B.C.) in September. Might be awaiting reuse, hopefully as a complete airframe, not as parts. On 7 November a request was received to have the Convair transferred to the Canadian aviation register.
Douglas	BT-67	<b>9043</b>	C-GOOU	ALCI. Noted in a similar colour layout as the AirTec Turbo Daks, but with smaller titles, "White Desert", referring to the arctic. Noted as such 7 November in Panama City (Panama), heading south.
	C-47A	<b>9628</b>	"ET-T-1"	Ethiopian, received a new coat of paint, again painted as ET-T-1, but originally ET-AIA. More importantly is that it has now been moved to the main roundabout just outside the domestic terminal of Addis Ababa Bole Airport, Ethiopia. Noted as such mid November 2019. Before this propliner was located between the maintenance buildings of Ethiopian, not accessible to the general public. The original ET-T-1 ( <b>10053</b> ) crashed in 1962.
	C-47B	<b>33445</b>	N41CQ	Congo Queen, arrived in China in October. Has already been repainted into China National Aviation Corporation colours (with fake registration XT-125), but no proper pictures are available. Will be part of a flying collection in or near Beijing, China. While this is a fake registration, XT-125 of CNAC did exist but its identity is unknown.
	C-47B	<b>34409</b>	9Q-CAM	Virunga Air Charter, was parked at Goma Airport in Eastern DR Congo. In November 2019 pictures reached the internet of the scrapping of this airframe.
	DC-7B	<b>45351</b>	N4887C	International Air Response, ferried to Atlanta Hartsfield on 18 November where it will be part of the Delta Flight Museum located at the airport. We expect the airplane soon to be painted in full Delta colours.
DHC	2	<b>1227</b>	N375RM	New Zealand Seaplanes purchased this Beaver. It was noted mounted inside a sea-container in Seattle (WA) ready for shipment across the Pacific on 6 November 2019.
	3T	<b>209</b>	C-GBTU	Blue Water Air Services, crashed in Northern Manitoba on 26 October 2019. See Dustpan & Brush for more details.

Credits: Aad van der Voet, Michael Prophet, Ruud Leeuw, Neil Aird (DHC-2.com), Ralph Pettersen (Conniesurvivors), online propliner and photo communities.



Fokker 50 C5-MAM (msn 20335) was seen in Tarco Air colours back in August 2017, while receiving maintenance at Pondok Cabe. It seems highly likely it never left Pondok Cabe as it was seen there again on 1 October 2019, in all white colours. This could mean that it has left the fleet and is awaiting a new customer. The doors are open in this picture by Fred Bonner, perhaps to let some fresh air into the Fokker as it has been there in the sweltering heat for quite some time!

F27	C-31A	<b>10668</b>	85-01608	US Army/Golden Knights. Recently withdrawn from service at Pope Army Field, near Fort Bragg (NC) and was offered for sale at an auction, which ended 24 October. Low and behold, it was acquired by the Stichting Vliegend Nederlands Cultureel Erfgoed, a Dutch heritage foundation. It will soon be ferried from Pope to Laurenburg-Maxton (NC) where it will be prepared for the long transatlantic flight back to its country of birth!
F28	-050 -0100	<b>20226</b> <b>11459</b>	SE-LTR VH-VKN	Amapola Flyg. Arrived Lelystad 20 November as APF800P for repaint. It is unclear into what colours. Alliance Airlines, ex HB-JVE Austrian Airlines. Arrived Brisbane 14 October as SX11949 and registered on 21 October. There are now four Fokkers registered as VH-VK. and parked at Brisbane after the ferry, with engines removed. It seems like Alliance will leave them there and may return them to service, or they will be used for spares.
	-0070	<b>11561</b>	5B-DDB	Tus Airways. Arrived Maastricht 4 November after flight U8125 from Larnaca. Tus Airways recently went bankrupt and its fleet of Fokker 70s was put up for sale. This was the first one to be ferried out.

Credits: Merv Crowe, Skyliner.

### Bizjets

BAe	125-800XP	<b>258481</b>	2-OTWO	Titan Aviation, ex HZ-KSRC. Noted at Bournemouth on 23 May.
Beech	400XT	<b>RK-368</b>	G-FXRJ	Ex N427FL was sold to Flexjet Ltd. but is operated by Flairjet Ltd.
Cessna	510	<b>0086</b>	D-IZST	Bensenair, ex N808RD. Noted at Erfurt on 22 October.
	525	<b>0384</b>	T7-BSG	Delic Air, ex SP-GMM. Noted at Samedan on 29 December 2018.
	525	<b>0652</b>	N380AG	RDT Holdco, ex RA-67705. Registered on 10 September.
	525	<b>0671</b>	OO-CCJ	Air Service Liège, ex D-IZZZ. Registered on 25 October.
	525A	<b>0468</b>	M-VLCC	Shiphold Management Services, ex N81SJ. Registered on 5 November.
	525C	<b>0188</b>	OE-GXT	International Jet Management, ex M-SIXT. Registered in November.
	560XLS	<b>5788</b>	9H-JOS	Luxwing, ex G-XSTV. Registered in November.
	560XLS+	<b>6178</b>	YU-SVJ	Prince Aviation, ex D-CIFM. Noted at Farnborough on 19 October.
	750	<b>0131</b>	C-FJDZ	Air Partners, re-registered from C-GAPT on 29 August.
Challenger	300	<b>20142</b>	C-GTUF	Chartright Air, re-registered from C-GTUI on 12 August.
	350	<b>20613</b>	N378BA	Noted at Van Nuys (CA) on 11 November, ex N724EH.
	350	<b>20789</b>	C-GFKN	Bombardier, ex C-GOWY. Registered on 26 August.
	350	<b>20791</b>	N56X	350 Aviation, re-registered from N350VS on 6 September.
	350	<b>20812</b>	N706QS	NetJets, ex C-GUGS. Registered on 20 September.
	350	<b>20814</b>	N350NK	Bombardier Aerospace, ex C-GUGY. Registered on 20 September.
	350	<b>20817</b>	N29HG	Bombardier Aerospace, ex C-GOXB. Registered on 18 September.
	350	<b>20822</b>	D-BPMI	Noted at Nürnberg on 14 November, ex C-GOXU.
	600S	<b>1054</b>	N776WT	Sierra Tango Bravo, re-registered from N915KH on 10 September.
	604	<b>5375</b>	N375MZ	Zubi5375, ex M-ANNA. Registered on 20 September.
	605	<b>5770</b>	C-GFKJ	Bombardier, ex N299KR. Registered on 29 August.
	650	<b>6136</b>	N650DJ	Bombardier Aerospace, ex C-GJUZ. Registered on 30 August.
	650	<b>6138</b>	C-GJVA	Bombardier, ex C-FAKM. Registered on 13 August.
	650	<b>6138</b>	N650EL	Bombardier Aerospace, ex C-GJVA. Registered on 29 August.
	650	<b>6142</b>	N817KA	Bombardier Aerospace, C-FAOU. Registered on 18 September.
	650	<b>6147</b>	C-FSJR	Bombardier, re-registered from C-FAZO on 13 August.
	680	<b>0221</b>	N94PC	Claire Air Leasing, re-registered from N401PG on 10 September.
	680	<b>0285</b>	N927GM	SJM Assets, re-registered from N680AJ on 9 September.
Eclipse	EA500	<b>000005</b>	N1150E	Reregistered from N504RS on 6 November.
	EA500	<b>000072</b>	2-	Ex N843TE, exported to Guernsey on 19 November.

Embraer	500	<b>50000281</b>	N20XX	Former D-IMOR of Starwings Dortmund Luftfahrt GmbH was sold to KEB Group in the U.S.	
	505	<b>50500099</b>	LN-HLM	Ex F-HJFG of GDP Vendome SARL was sold to an unknown operator in Norway.	
	505	<b>50500529</b>	OE-GBH	This brand new Phenom 300 was delivered to Tyrolean Jet Services GmbH.	
	505	<b>50500532</b>	F-HGPE	And another brand new Phenom 300 was delivered to Europe, this time for Pan Européenne Air Service.	
	550	<b>55020112</b>	D-BGFN	Former PR-LFE of Embraer was sold to MHS Aviation GmbH in Germany.	
	Falcon	7X	<b>168</b>	M-GGAL	Charter Air, ex B-3268. Registered on 5 November.
		7X	<b>219</b>	N711PV	PVI, ex T7-CBG. Registered on 17 September.
		8X	<b>456</b>	LN-XAX	Sundt Air, registered on 9 October.
		8X	<b>457</b>	F-HDMO	Dassault Aviation, noted at Las Vegas-Henderson Executive (NV) on 24 October.
		8X	<b>458</b>	LX-GBH	Luxaviation, noted at Luxembourg on 21 November.
		8X	<b>459</b>	M-OEPL	Auburn Oak Nigeria, ex F-WWZW. Registered on 13 November.
		50	<b>136</b>	N45AC	Aerocraft International, ex XB-YJA. Registered on 9 September.
		900	<b>98</b>	N522TL	Lacore Adventures, re-registered from N590F on 3 September.
		900C	<b>189</b>	N599SR	Stable Road Jets, re-registered from N144FH on 23 February 2018.
900C		<b>196</b>	N927BR	Fur Management & Consulting, re-registered from N501DB on 9 September.	
900EX		<b>70</b>	N990PM	Pacific Marine Logistics, re-registered from N999PM on 11 September.	
900LX		<b>76</b>	N98MH	MH Air, ex C-GMLH. Registered on 17 September.	
900LX		<b>298</b>	N1960H	Discount Tire, ex F-HFIX. Registered on 9 September.	
900LX		<b>314</b>	N26SM	Tricor Aviation, ex N314FJ. Registered on 5 September.	
900LX		<b>316</b>	N316FJ	TVPX Aircraft Solutions, ex F-WWFS. Registered on 6 September.	
2000LX		<b>20</b>	N471SC	Dodson International Parts, ex XA-CDT. Registered on 6 September. This is probably the first Falcon 2000EX series that will be scrapped. XA-CDT was damaged in a hangar-collapse at Houston-Hobby (TX) on 4 April 2018.	
Global	2000LXS	<b>268</b>	N507DS	KAG Services, re-registered from N65NY on 10 September.	
	Express	<b>9022</b>	N181CK	Imported from Canada on 20 November, ex C-GXMP.	
	Express	<b>9031</b>	M-SIYU	Ex N724AF, cancelled on 25 October. Transferred to the Isle of Man on 28 October.	
	5000	<b>9857</b>	T7-SAI	Ex C-GDIZ, which was cancelled on 31 October. Now in San Marino register.	
	6000	<b>9612</b>	B-603K	Ex C-GXLG of ACASS Canada. Cancelled on 22 October.	
	6000	<b>9716</b>	B-605D	Operated by ZYP Lily Jet. Addition to Scramble 486.	
	6000	<b>9729</b>	VP-CGL	Ex N998ZX, which was cancelled on 22 October. Afterwards registered in the Cayman Islands.	
	6000	<b>9863</b>	14+06	Ex C-GEVP, seen in Luftwaffe c/s in September. Exported from Canada on 14 November.	
	6000	<b>9865</b>	14+07	Registered as C-GEVX on 1 February. To Germany on 12 November.	
	6000	<b>9866</b>	N724AM	Ex C-GFFK, to the USA on 18 November. Still with Bombardier.	
	7500	<b>70004</b>	C-GLBR	Registration was cancelled on 15 August.	
	7500	<b>70008</b>	C-FXAW	Registered to Bombardier on 25 July.	
	7500	<b>70009</b>	VP-CFK	Ex C-FXAJ, which was cancelled on 28 June. Has New Yorker titles.	
	7500	<b>70014</b>	9H-MAF	Operated by Hyperion Aviation since October, ex C-FXAZ.	
	7500	<b>70021</b>	N8CG	Delivered to Bombardier on 8 November. Ex C-FZLX.	
	7500	<b>70030</b>	C-GDHU	Delivered to Bombardier on 27 May.	
	7500	<b>70031</b>	C-GDUA	Delivered to Bombardier on 17 July.	
	7500	<b>70032</b>	C-GDUW	Delivered to Bombardier on 26 July.	
	7500	<b>70033</b>	C-GDUX	Delivered to Bombardier on 6 June.	
	7500	<b>70034</b>	C-GDVO	Delivered to Bombardier on 20 June.	
	7500	<b>70035</b>	C-GFJD	Delivered to Bombardier on 7 August.	
	7500	<b>70036</b>	C-GFIH	Delivered to Bombardier on 7 August.	
	7500	<b>70037</b>	C-GFJQ	Delivered to Bombardier on 3 July.	
7500	<b>70038</b>	C-GFJE	Delivered to Bombardier on 9 September.		
7500	<b>70039</b>	C-GFJA	Delivered to Bombardier on 26 August.		
7500	<b>70040</b>	C-GFHY	Delivered to Bombardier on 10 September.		
7500	<b>70041</b>	C-GFJO	Delivered to Bombardier on 17 October.		



A very nice landing-shot of an aircraft type slowly disappearing from the global skies, is this Gulfstream III (N492A, msn 425) of Western Jet Aviation with measuring equipment under the fuselage, and was taken at Fort Worth NAS JRB/Carswell Field (TX). Small detail: on the measuring pod a picture is visible containing the figure of famous Lockheed Martin Skunkworks... (23 October 2019, Dylan Phelps)



*This Cessna 510 Mustang put its wheels on the ground at Fort Lauderdale-Hollywood Airport (FL) on 13 November 2019. The aircraft belongs to JSM Aviation. (Walter Heukensfeld)*



*At Fort Lauderdale-Executive (FL) Walter Heukensfeld saw Falcon 900 N950SF with its striking colour scheme which recently has been applied to this aircraft. (7 November 2019)*



*Gulfstream G650ER of Jet Aviation Business Jets (the Hong Kong branch of Jet Aviation) is seen here in a rare livery, as in it sports penguins! Robert Eikelenboom saw the Gulf at Amsterdam-Schiphol on 12 October 2019.*



Talking about rather dull colour schemes on many business-related aircraft, this one is a fine exception to that rule. Gulfstream G650 2-KYCM belongs to Deer Jet and was registered in August 2018. (Rotterdam-The Hague, 3 October 2019, Maarten Visser Sr)

	7500	<b>70042</b>	C-GJHF	Delivered to Bombardier on 24 September.
	7500	<b>70043</b>	C-GJHK	Delivered to Bombardier on 15 October.
	7500	<b>70044</b>	C-GJHQ	Delivered to Bombardier on 6 November.
	7500	<b>70045</b>	C-GJHV	Delivered to Bombardier on 16 October.
	7500	<b>70046</b>	C-GJHY	Delivered to Bombardier on 18 November.
Gulfstream	III	<b>445</b>	N118JK	Juliett Kilo, re-registered from N158PC on 6 September.
	IV	<b>1070</b>	N220TD	TD Aviation, re-registered from N40KJ on 3 September.
	IVSP	<b>1302</b>	N163MD	Arad Energy, re-registered from N821SS on 6 September.
	IVSP	<b>1353</b>	HB-ILS	Watana, ex A9C-BRF. Registered on 11 November.
	IVSP	<b>1374</b>	N805FT	Sofodan, re-registered from N993AC on 6 September.
	G450	<b>4243</b>	9H-SGI	TAG Aviation Malta, ex D-AGVI. Noted at Geneva on 10 November.
	G450	<b>4253</b>	N756J	Gulfstream Aerospace, re-registered from N533SR on 11 September.
	G450	<b>4320</b>	N457MP	Tesoro Aviation, re-registered from N981A on 12 September.
	G550	<b>5113</b>	N585RM	TVPX Aircraft Solutions, re-registered from N175NH on 5 September.
	G550	<b>5240</b>	M-HERI	Avcon Jet Malta, ex HB-JKC. Registered on 29 October.
	G550	<b>5249</b>	N767PL	Prime Jet, re-registered from N757PL on 12 September.
	G550	<b>5408</b>	9H-SGA	TAG Aviation Malta, ex D-AGVA. Noted at Geneva on 30 October.
	G550	<b>5589</b>	N50WH	Wing Wing Holdings, ex N589GA. Registered on 4 September.
	G650ER	<b>6134</b>	M-SOZO	Sozo Aviation, ex N634GD. Registered on 28 October.
	G650ER	<b>6361</b>	N650GD	Laliberta, registered on 11 September.
	G650ER	<b>6384</b>	N917C	Centrale North America, ex N684GA. Registered on 19 September.
	G650	<b>6392</b>	B-603V	JiuJang Group, ex N692GA. Noted at Zürich on 18 November.
	G650	<b>6394</b>	M-YNNS	A new G650 for Nasser Sawiris, ex N694GA. Registered on 18 November.
	G500	<b>72019</b>	OY-WLD	Blackbird Air Charter, ex N519GD. Delivered to Billund on 29 October.
	G600	<b>73008</b>	N108DB	Wilmington Trust, ex N608GD. Registered on 11 September, replaces G650 c/n 6128.
	G600	<b>73007</b>	N76PW	Madrone Aviation, ex N760GD. Registered on 9 September.
	G600	<b>73010</b>	M-CAPE	G600 Aviation, ex N610GA. Registered on 25 September.
IAI	1125SPX	<b>131</b>	N80SP	Reregistered from N63WD on 13 November.
	1125SPX	<b>135</b>	YV	Cancelled from the USA on 30 October. Now in Venezuela.
	G200	<b>69</b>	N384JK	Reregistered from N334JK on 13 November.
Learjet	45	<b>45-059</b>	LN-AWC	Former ZS-PNP of Pick N Pay Gabriel Road Ltd. was sold to Airwing AS.
	60	<b>60-335</b>	9H-SAN	Ex TC-MEN of Türkmen Havacilik Tasimaciligi ve Ticaret AS was sold to Air CM Global Ltd.
Pilatus	PC-24	<b>147</b>	SP-MIX	Former HB-VUV of Pilatus Flugzeugwerke was sold to AMJ SP.z.o.o. in September.
	PC-24	<b>149</b>	D-CVAA	Former HB-VUX of Pilatus Flugzeugwerke was sold to Volkswagen AG.
	PC-24	<b>152</b>	HB-VZA	Registered to Pilatus Flugzeugwerke in July. Later re-rgd as:
	PC-24	<b>152</b>	N1040C	for a yet unknown customer.
	PC-24	<b>153</b>	HB-VZB	Registered to Pilatus Flugzeugwerke in August. Later re-rgd as:
	PC-24	<b>153</b>	N84KH	for a yet unknown customer.
	PC-24	<b>155</b>	HB-VZD	Registered to Pilatus Flugzeugwerke in September.
	PC-24	<b>156</b>	HB-VZE	Registered to Pilatus Flugzeugwerke in September.

## Bizprops

Beech	B200	<b>BB-2004</b>	VH-ZSY	Ex LN-LTK of Lufttransport was sold to Machjet International P/L.
	200GT	<b>BY-172</b>	EC-NFX	Instead of CS-NFX, correction to Scramble 486 – Page 38.
	250	<b>BY-351</b>	OY-SHV	Former N351BV of Textron Aviation Inc. was sold and registered to Air Greenland.
Cessna	208B	<b>0956</b>	G-CLIW	Winglider, ex N105AN. Registered on 23 October.
Commander	680F	<b>1195-100</b>	N965AR	Pedro Angel Rubio Brunet, ex EC-CTO. Registered on 23 September.
		<b>695</b>	<b>95039</b>	N980EE International Air Services, ex D-IHSI. Registered on 5 September.
PAC	750XL	<b>185</b>	G-GWMB	Hinton Skydiving Centre, re-registered from ZK-KCE on 18 October.
Piaggio	P180	<b>1122</b>	2-FAST	Registered to Skypark (UK) on 30 July.
	P180	<b>1213</b>	D-IXRK	Ex I-FXRK, which was cancelled on 2 August. Now in Germany with Winair.
Pilatus	PC-12/45	<b>513</b>	N323VB	Ex VP-CPC of Trustair Ltd. was sold to an unknown operator in the US.
	PC-12/47E	<b>1121</b>	PH-PNG	PH-PNG is still actual, correction to Scramble 485 – Page 40.



This Super King Air 350 2-WKTJ (with msn FL-470) was registered into the register of Guernsey in October this year and is operating for Diamond Executive Aviation. This aircraft has been used since as an airborne relay- and measurement aircraft, as can be seen by the extra dome on top and extra belly under the fuselage. (Rotterdam - The Hague, 1 November 2019, JvL.Holland)

PC-12/47E	<b>1223</b>	M-BELI	Former M-BELL of B L Bell LP Inc. was re-registered in September.
PC-12/47E	<b>1760</b>	M-BELL	Former G-DYLN of Oriens Leasing Ltd. was sold to B L Bell LP Inc.
PC-12/47E	<b>1791</b>	HB-FXG	Ex ZS-FLI of Corporate Flight Services was sold to St. X in Switzerland.
PC-12/47E	<b>1841</b>	SP-PPP	Former D-FDDD was re-registered into the Polish register.
PC-12/47E	<b>1890</b>	OH-GTH	Ex HB-FSU of Pilatus Flugzeugwerke was sold to Hendell Aviation OY in August.
PC-12/47E	<b>1897</b>	N897NG	Ex HB-FQB of Pilatus Flugzeugwerke was sold to Pilatus Business Aircraft Ltd. in the US in September.
PC-12/47E	<b>1899</b>	N40NX	Ex HB-FQC of Pilatus Flugzeugwerke was sold to Pilatus Business Aircraft Ltd. in the US in September.
PC-12/47E	<b>1903</b>	N648JS	Ex HB-FQG of Pilatus Flugzeugwerke was sold to Pilatus Business Aircraft Ltd. in the US in September.
PC-12/47E	<b>1909</b>	HB-FQN	Registered to Pilatus Flugzeugwerke 2 September. Later sold as:
PC-12/47E	<b>1909</b>	N909NG	to Pilatus Business Aircraft Ltd. in the US in October.
PC-12/47E	<b>1910</b>	HB-FQO	Registered to Pilatus Flugzeugwerke 5 September.
PC-12/47E	<b>1911</b>	HB-FQP	Registered to Pilatus Flugzeugwerke 10 September. Later sold as:
PC-12/47E	<b>1911</b>	N966WA	to Pilatus Business Aircraft Ltd. in the US in October.
PC-12/47E	<b>1913</b>	HB-FQR	Registered to Pilatus Flugzeugwerke 16 September.
PC-12/47E	<b>1914</b>	HB-FQS	Registered to Pilatus Flugzeugwerke 19 September.
Piper	31-350	<b>7852132</b>	N27735 Southern Aircraft Consultancy, ex LN-ABZ. Registered on 9 September. Was noted at Stockholm-Bromma on 8 October, so likely still based in Europe.

## Soviet Updates

Go to the Soviet Transports database on the Scramble website for full known histories, including extensive info on crashes, colour schemes et cetera. To get the most from this extensive database (some 140,000 records) consider using the advanced search options.

Near the bottom of the same page (Soviet Transport database on [www.scramble.nl](http://www.scramble.nl)) is a link to the Soviet Transports downloads page at the new and expanding [AirHistory.net](https://www.airhistory.net/info/soviet.php) website (<https://www.airhistory.net/info/soviet.php>). On the 'reference' tab on this site there you can find a sub-page 'Soviet Transport Data Files' and there you can find;

- free downloadable known production lists of the almost 250 types included in the 'Soviet Transports' database,
- these productions lists also include all known military transport aircraft and all known military Kamov and Mil helicopters,
- a list of western-built aircraft which saw service in the Soviet Union and the Eastern Block (excl. modern types)
- a list of all RF- registered aircraft including other types like Western-built aircraft and Soviet/Russian-built fighters,
- an illustrated explanation to construction numbers used on 'Soviet Transports' types,
- a list of abbreviations, English to Russian translations and the official and unofficial location codes used in the ST files,
- a Google Earth KMZ file with all airports in the Soviet Transports database.

This free service replaces an eventual new edition of the Soviet Transports book which nowadays would simply be too expensive to produce. This as a total rundown of all files in early 2019 shows a new book would equate over 1,800 pages, where it to be published in the same format, A4 with a small letter type.

An-2T	<b>1 02 473 06</b>	CCCP-23717	AFL/Krasnoyarsk	rgd	09may58	fuselage used either as a shed or for parachute ground training at the civil airport at Kansk, seen mar90/oct95
An-2T	<b>1 09 473 02</b>	CCCP-32614(1)	AFL/Far East	dbr	21mar63	on t/o Nikolayevsk-na-Amure, t/t 5,826 hours
An-2T	<b>1 12 473 03</b>	CCCP-04267	AFL/Krasnoyarsk	dbr	15oct60	collided with trees on a steep slope SW of Sharypovo
An-2T	<b>1 13 473 09</b>	CCCP-G392	Mingeo	rgd	18sep51	later became CCCP-L317
An-2T	<b>1 15 473 04</b>	CCCP-32637(1)	AFL/Krasnoyarsk	dbr	21jul64	details unknown, no casualties; t/t 9,578 hours
An-2V	<b>1 56 473 20</b>	CCCP-05677	AFL/Krasnoyarsk	rgd	dec88	used for parachute ground training at the DOSAAF airfield at Krasnoyarsk-Ustanovo; gone by jun01
An-2T	<b>1 58 473 15</b>	CCCP-L5695	AFL/Krasnoyarsk		1988	used by the DOSAAF aeroklub at Krasnoyarsk-Ustanovo for parachute training; gone by jun01
An-2T	<b>1 70 473 08</b>	CCCP-01243	AFL/Yakutiya	dbr	09jul63	overran a strip on landing and nosed over in a swamp
An-2Skh	<b>1 79 473 01</b>	CCCP-01176	AFL/Krasnoyarsk	dbr	06dec61	ripped off its moorings bu & storm and turned upside
An-2T	<b>1 80 473 16</b>	CCCP-01196	AFL/Azerbaijan	rgd	09may58	destroyed by a storm, date unknown; t/t 4,533 hours
An-2T	<b>1 97 473 05</b>	CCCP-98218	AFL/Moldova	dbr	16aug63	at Kishinyov was blown over by a storm ; t/t 3,720 hrs

An-2T	1101 473 03	CCCP-98275	AFL/Uzbekistan	dbr	01jun63	at Urgench when was turned upside down by a storm
An-2T	1103 473 05	CCCP-98313	AFL/Azerbaijan	toc	aug58	destroyed by a storm, date unknown; t/t 2,555 hours
An-2T	1111 473 06	CCCP-25432	AFL/Krasnoyarsk	dam	06jul82	while taxiing at Krasnoyarsk-Severnoy; was preserved in front of the terminal at Krasnoyarsk-Yemelyanovo
An-2V	1129 473 19	CCCP-35359	AFL/Urals	dam	02jun62	turned over by high waves while taxiing after landing
An-2T	1138 473 19	CCCP-35494	AFL/Azerbaijan	toc	26may60	destroyed by a storm, date unknown; t/t 2,517 hours
An-2T	1G07-09	CCCP-28895	AFL/Azerbaijan	toc	12jul61	destroyed by a storm, date unknown; t/t 1,585 hours
An-2T	1G07-23	CCCP-28909	AFL/Azerbaijan	toc	08jul61	destroyed by a storm, date unknown; t/t 2,172 hours
An-2R	1G20-09	CCCP-09166	AFL/Sykytyvkar	dbr	18jan63	when the engine failed due to the loss of oil
An-2P	1G140-28	UP-A0106	Aero	AKX	01mar12	c/n known now, ex CCCP-70324
An-2R	1G167-05	9A-BKA	Privred. Avijacija		2019	the fuselage is preserved Michelstadt, Germany
An-2R	1G169-38	CCCP-07823	Aeroflot	OVS	27aug18	preserved the entrance of the airport
An-2R	1G184-54	UP-A0349	Samgau Agro	rgd	13may19	ex RA-54847
An-2R	1G210-21	UR-17997	V.O. Shymkovych	rgd	22apr14	f/n Hoholiv 21oct19
An-2TP	1G212-01	EX-88004	all green c/s	FRU	10jul19	ex EX-012
An-2R	1G223-50	RA-40424	all-orange c/s		25aug15	canx between 06sep19 and 06nov19
An-2	---	"21" blue	Russian Air Force	photo	03apr91	active at Brand, East Germany
An-2	---	RF-90553	Russian Air Force	OVB	16sep19	coded "06" yellow
An-12	1 9 017 05	"37"	Soviet Air Force	photo		at Fergana; in all grey c/s with Red star
An-12BK	01 34 80 05	UR-CKL	Cavok Air	LPL	30sep19	damaged when collided with a light pole
An-12	---	CCCP-11245	Soviet Air Force/AFL titles	photo		in all-grey c/s; the same aircraft as c/n 00347509 ?
An-12	---	CCCP-11805	Soviet Air Force/AFL titles	photo		circa 1968/1970; in all-grey c/s
An-12	---	CCCP-11882	Soviet Air Force/AFL titles	photo		circa 1982/1984; in all-grey c/s
An-12	---	CCCP-11979	Soviet Air Force/AFL titles	photo		in all-grey c/s
An-12	---	CCCP-75607	Soviet Air Force/AFL titles	photo		at Fergana; in all grey c/s
An-24RV	2 73 082 04	RA-46491	UTair	HMA	12sep19	
An-24RV	2 73 082 10	RA-46497	UTair	TJM	12sep19	
An-24RV	4 73 095 08	RA-46667	UTair	KJA	17sep19	still in basic Nordavia colours
An-24RV	6 73 105 05	3X-GEX	Suhura Airways	l/n	nov18	somewhere in Yemen
An-26	37 09	3D-BKL	all white, n/t	JUB	29oct19	c/n not confirmed; ex 4L-BKL ?
An-26100	81 01	RA-26662	UTair	KJA	17sep19	
An-26	---	RF-36152	Russian Air Force	Lev	nov19	also carried "26" red
An-26	---	YI-AZR	Southwest	JUB	29oct19	
An-32RE	25 06	KA3073	Indian Air Force	Hin	07oct19	
An-72	365720 91 831	RF-72962	Russian Air Force	Rzd	31jul18	l/n over Monino 15nov19
Il-14M	14700 14 06	CCCP-91519	AFL/Krasnoyarsk	f/n	dec88	used by the DOSAAF aeroklub Krasnoyarsk-Ustanovo for parachute training; l/n jun93, gone by jun01
Il-28	---	"03" yellow	Kazakh Air Force	photo	07jun18	preserved in these fake colours at Aktobe
Il-78M	0934 19573	RF-86048	Russian Air Force/AFL c/s	lva	aug19	l/n OVB oct19
Il-78	00834 85558	N20NS	Meridian Inc	res	19jul19	rgd 07nov19; ex N78GF
Il-76MD	---	21146	Chinese Air Force		12oct19	at Danyang AFB
Ka-15M	15 25-12	CCCP-30128	AFL/Moldova	w/o	13jun61	on a crop-spraying flight over vineyards near Kishinyov
Ka-18	18 02-09	CCCP-64578	AFL/Sykytyvkar	w/o	08nov63	engine caught fire while being warmed up before t/o
Ka-18	18 05-08	CCCP-64608	AFL/Sykytyvkar	dbr	31aug63	took off with the centre of gravity out of the envelope
Ka-32A	6108	RA-31060	Moscow Aviation Centre	l/n	06jun16	canx between 06sep19 and 06nov19
Ansats	33 102	RA-20036	not known	rgd	21oct19	line # 102
Ansats	33 103	RA-20037	not known	rgd	30sep19	line # 103; f/n IJK 25oct19 all white, n/t
Ansats	33 105	RA-20039	not known	rgd	04oct19	line # 105
Ansats	33 106	RA-20040	not known	rgd	29oct19	line # 106
L-200D	17 08 29	CCCP-34468	AFL/Kazakhstan	dbr	22jun63	on a check flight from Kentau after engine problems
L-410MU	78 11 10 ?	RA-67299	all white, n/t	photo	oct19	active at Rostov-na-Donu-Olginskaya; ex 2181K ?
L-410UVP-E20	30 12	RA-67048(2)	Uktus	SVX	19jul19	canx between 06sep19 and 06nov19
L-410UVP-E20	32 09	RA-67072	not known	rgd	29oct19	ex OK-JRN
L-410UVP-E20	19 32 14	--	Aircraft Industries	UHE	19jul19	fuselage on a low loader for delivery to Russia



It turned forty years old this summer, but still going strong, is this Russian Air Force An-30R rain maker. The rain making equipment is clearly visible on the lower forward fuselage. It now carries 'VKS Rossii' titles and this photo re-confirmed its construction number as 1505. (Novosibirsk-Tolmachevo, 16 September 2019, Andre Alders)

L-410UVP-E20	19 32 16	not known	not known	17jul19	reportedly trucked to Russia
L-410UVP-E20	19 32 20	OK-JRW	Aircraft Industries	f/f	10oct19 for Gazprom; l/n UHE 22oct19
L-410UVP-E20	19 33 01	OK-JRY	Aircraft Industries	rgd	06nov19 for Polish Border Guard, in full c/s UHE 11nov19
L-410UVP-E20	19 33 02	OK-JRZ	Aircraft Industries	rgd	18nov19 for Polish Border Guard
L-410	---	TL-AAK	blue/white, n/t	MGQ	03nov19
L-410	---	YI-BYO	green tail and cheat line	dbr	27oct19 during a forced landing on south of Bor, South Sudan
L-410	---	9N-AND		KTM	21nov19 delivered from Russia blue and white scheme and n/t
PS-84	4	CCCP-L3405	AFL/Georgia	w/o	23nov40 crashed into a mountain in poor visibility
PS-84	02 4 6	CCCP-L3409	AFL/MOW-IKT route	w/o	07aug40 collided with the ground near Novosibirsk
Li-2	184 91 09	CCCP-L4157	AFL/Moscow (MUTA)	dbr	22aug53 soc 14oct53; c/n now known
Li-2	184 154 10	"07"	Soviet Air Force	mfd	1944 code probably yellow
Li-2	184 267 03	CCCP-63857	AFL/East Siberia	dbr	28sep61 hit by Li-2T CCCP-71199 that veered off YKS runway
Li-2P	184 270 04	CCCP-16205	AFL/North Kavkaz	rgd	29may58 probably new reg never painted on as soc 15dec58
Li-2T	184 284 09	CCCP-65680	AFL/Moldova	dbr	16aug63 at Kishinyov when was blown over by a storm
Li-2P	184 383 05	CCCP-54920	AFL/Moldova	dbr	16aug63 at Kishinyov when was blown over by a storm
Li-2	2 34 409 05	"59"	Soviet Air Force	mfd	1952 code probably yellow
Li-2	2 34 410 02	CCCP-16172	AFL/Urals	dbr	23oct63 stalled on take off Chelyabinsk ; t/t 1,674 hours
Li-2	2 34 424 07	"01"	Soviet Air Force	photo	07jun68 code just outlined (probaby in white)
Li-2	2 34 431 07	"12" white	Soviet Navy	Kde	1964 opb 263 otap VVS BF; in dark green c/s
Li-2	2 34 431 08	"14" white	Soviet Navy	photo	1960s opb 263 otap VVS BF; in dark green c/s
Li-2	2 34 435 05	CCCP-54989	AFL/Far East	dbr	23aug63 when touched down 80 metres before the threshold
Li-2	3 34 442 07	"33"	Soviet Air Force	photo	colour of the code yellow or white
Li-2P	42 06	CCCP-16177	AFL/Yakutiya	dbr	24apr60 MTOW exceeded by 600 kg, stalled on t/o and crashed
Mi-1T	7 68 005 01	CCCP-20304	AFL/Krasnoyarsk	dbr	04nov62 in poor weather when tail rotor touched the ground
Mi-1T	8 68 006 05	CCCP-40434	AFL/Krasnoyarsk	dbr	10jul62 details unknown, no casualties; t/t 789 hours
Mi-1M1	8 68 009 17	CCCP-40452	AFL/Ukraine	w/o	05dec62 on take-off from the whaler "Slava" in the Indian Ocean
Mi-1M	9 68 012 01	CCCP-68041	AFL/Kyrgyzstan	dbr	19jun63 details unknown, no casualties; t/t 1,230 hours
Mi-1M	9 68 012 12	CCCP-68056	AFL/East Siberia	dbr	13jul62 details unknown, no casualties; t/t 1,082 hours
Mi-1MNKh	9 68 014 17	CCCP-68096	AFL/Uzbekistan	dbr	27oct62 details unknown, no casualties; t/t 867 hours
Mi-1MG	9 68 016 20	CCCP-68140	AFL/Belarus	dbr	20jan63 on landing at one of the Kerguelen Islands
Mi-1	0 68 017 01	CCCP-68141	AFL/Far East	dbr	03aug61 CFIT when was not able to climb over a summit
Mi-1MNKh	0 68 017 14	CCCP-68148	AFL/Ukraine	dbr	05jul61 details unknown, no casualties; t/t 272 hours
Mi-1T	5 7 002 03	CCCP-40322	AFL/Turkmenistan	dbr	28jul63 on a pipeline patrol flight from Kotur-Tepe
Mi-1T	6 7 025 17	CCCP-10171	AFL/Kazakhstan	dbr	13jun64 coll. with Mi-1T CCCP-40402 which took off same time
Mi-1T	7 7 027 19	CCCP-20228	AFL/Kazakhstan	dbr	09sep62 caught by downstream while approaching landing site
Mi-1T	8 7 040 03	CCCP-40402	AFL/Kzakhstan	dbr	13jun64 coll. with Mi-1T CCCP-10171 which took off same time
SM-1/300	S1 12 008	not known	Polish Air Force	photo	sep19 stored dismantled in Flugplatzmuseum Cottbus
Mi-2	54 6917 110	RA-15769(2)		rgd	12sep20
Mi-4A	0523	CCCP-31479	AFL/Far East	dbr	10jun63 details unknown; struck off charge 17aug63
Mi-4A	0629	CCCP-31473	AFL/Uzbekistan	dbr	13feb64 when landed at a snow-covered site at 2,200 metres
Mi-4A	0865	CCCP-31412	AFL/Krasnoyarsk	w/o	05jul63 caught fire and burnt out, no casualties; t/t 1,591 hours
Mi-4VP	0780	CCCP-66871	AFL/Komi	dbr	13mar63 on a training flight when landed at a site nr Syktyvkar
Mi-4P	03 114	CCCP-28991	AFL/Krasnoyarsk	w/o	25jul64 caught fire during refueling
Mi-4A	11 144	CCCP-35216	AFL/Northern	toc	may63 ? w/o 30jun63 when submerged, details unknown
Mi-8PS-7	87 01	RF-94993(2)	Rosgvardiya	GOJ	20apr19
Mi-8T	9 75 45 26	"85" yellow	Russian Air Force	Eng	20feb17 stored; "85" stands for the 85th anniversary of 356 ARZ
Mi-8T	9 75 49 18	"64" white	Russian Air Force	photo	may17 preserved in the Ruzaevka museum
Mi-8MTV-2	9 5277	RF-34250	Russian MVD/VV	GOJ	20apr19 coded "49" yellow; in fading same c/s as above
Mi-8MTV-1S	9 7047	RA-24190(2)	not known	rgd	23oct19 see c/n 98943679
Mi-8AMT	59489607849	RA-27178	Komiaviatrans	VKT	18oct19 leased from Krasavia until late oct19
Mi-171Sh	171S00604137455U	EP-681	Peruvian Army	LIM	02nov19 c/n checked
Mi-171Sh	171S00604137458U	EP-684	Peruvian Army	LIM	30may17
Mi-171Sh	171S00604137462U	EP-688	Peruvian Army	LIM	02nov19 c/n checked
Mi-171Sh	171S00604137463U	EP-689	Peruvian Army	LIM	02nov19 c/n checked
Mi-171E	171E00643157509U	N240XX	Red Air Transport	rgd	26sep19 ex N509VS
Mi-171Sh	171S00170507670U ?	7670	Bangladesh AF	Dtj	31oct19
Mi-8AMTSh	---	RF-04473	Russian Air Force	photo	2019 coded "64" yellow
Mi-8AMT	---	RF-90423	Russian Air Force	CKL	apr16 coded "65" blue
Mi-8MT	---	RF-93115	Russian Air Force	photo	oct19 coded "16" red
Mi-8AMT	---	"160" yellow	Rosgvardiya	photo	oct19 in dark grey c/s with titles
Mi-8MTV-1	---	..-10009	not known	photo	sep19 seen under overhaul in Orshanski ARZ sep19
Mi-171Sh	---	H-649	Angolan Air Force	GXG	20nov16
Mi-17	---	BF1909	Burkina Faso Air Force	FNG	07oct19
Mi-171E	---	TT-OBC	Chad Air Force	photo	2019 with 'glass' nose and flat loading ramp
Mi-8P	10313	4L-BPF	Aviaservice	rgd	27feb15 at Goz Beïda with 'glass' nose and flat loading ramp
Mi-171	---	LH992733	Chinese Army	photo	28oct19 canx between 03aug19 and 01nov19
Mi-8T	---	KKH-001	Kuzey Kibris Helicopters	photo	18aug06 ex LH957xx; opb 72nd Brigade
Mi-17V-5	---	not known	Mozambique Air Force	d/d	25sep19 in all-white c/s, no titles; named 'Rauf R Denktas'
Mi-8MT	---	548	Sudanese Air Force	photo	with 'dolphin' nose and flat loading ramp
Mi-24V	353 242 24 20829	not known	not known	photo	in brown/sand camo c/s with light grey undersid
Mi-24P	353 243 18 24916	"6." white	Uzbek Air Force	photo	sep19 under overhaul in Orshanski ARZ sep19
Mi-35P	---	RF-93539	United Nations	Pus	11oct19 in greenish grey c/s; code outlined in red
Mi-24P	---	RF-93555	Russian Air Force	photo	2017 coded "UN-47"
Mi-35M	---	"06" red	Kazakh Air Force	d/d	2017 coded "09" red;
Mi-35M	---	"08" red	Kazakh Air Force	d/d	apr19 in dark grey c/s with titles in Kazakh
RRJ-95B	95 174	RA-89120	Azimuth	d/d	apr19 in dark grey c/s with titles in Kazakh
				h/o	26oct19 ferried ULY to KRR the same day; l/n ROV 06nov19



RF-94594 is a DOSAAF operated L-410UVP-E3 and was last seen in basic Aeroflot colours at Stupino 13 October 2013. It re-surfaced at Khanty-Mansisk on 12 September 2019 in this overall blue colour scheme. There is however, no confirmation of its construction number and therefore it is possible this registration has been re-used on another aircraft in addition to the one seen in 2013. (Khanty-Mansisk, 12 September 2019, Andre Alders)

RRJ-95B	<b>95 197</b>	89133	primer	ff	01nov19	
Tu-134A-3	<b>46175</b>	CCCP-65012	no titles	TJM	30oct19	flown by a Mi-26T to the access road of the airport
Tu-154M/D	<b>85A712</b>	B-4138	Chinese Air Force		12oct19	at Danyang AFB, fuselage only
Tu-154M	<b>91A895</b>	RA-85740	Atlant-Soyuz	VKO	12sep18	stored; canx between 06sep19 and 06nov19
Tu-204-300	<b>145074 3 3 64026</b>	RA-64026	Rosgvardiya	ULY	aug18	in primer; canx between 06sep19 and 06nov19
Tu-204-100	<b>145074 3 8 64046</b>	RA-64046	Air Koryo	MRV	28sep19	testflew; canx between 06sep19 and 06nov19
Tu-204-100	<b>145074 4 8 64049</b>	RA-64049	Air Koryo	MRV	28sep19	testflew; canx between 06sep19 and 06nov19
Yak-40	<b>9 72 14 53</b>	RA-88276	Tsentr-Yug		feb06	reported in 2019 as scrapped
Yak-12R	<b>06 4 15</b>	CCCP-L5817	AFL/Sykytyvkar	no	reports	became CCCP-21101 rgd 13may58
Yak-12R	<b>09 4 35</b>	CCCP-L5872	AFL/Sykytyvkar	no	reports	became CCCP-21100 rgd 13may58
Yak-12R	<b>12 4 14</b>	CCCP-L5797	AFL/Uzbekistan	rgd	22nov55	became CCCP-05797 rgd 1958; dbr by a storm 02jul63
Yak-12R	<b>13 4 01</b>	CCCP-T5952	AFL/Northern	rgd	14sep55	became CCCP-T5952 trf unknown
Yak-12M	<b>02 5 02</b>	CCCP-L5710	AFL/Sykytyvkar	no	reports	became CCCP-05710 rgd 13may58
Yak-12M	<b>02 5 06</b>	CCCP-L5713	AFL/Northern	rgd	07mar56	became CCCP-05713 rgd 13may58
Yak-12M	<b>02 5 12</b>	CCCP-L5723	AFL/Sykytyvkar	no	reports	became CCCP-05723 rgd 13may58
Yak-12M	<b>02 5 35</b>	CCCP-L5770	AFL/Sykytyvkar	no	reports	became CCCP-05770 rgd 13may58
Yak-12M	<b>04 5 02</b>	CCCP-L5988	AFL/Sykytyvkar	no	reports	became CCCP-95988 rgd 13may58
Yak-12M	<b>06 5 01</b>	CCCP-L4027	AFL/North Kavkaz	no	reports	became CCCP-74027 rgd 1958
Yak-12M	<b>06 5 02</b>	CCCP-L4023	AFL/North Kavkaz	no	reports	became CCCP-74023 rgd 1958
Yak-12M	<b>06 5 06</b>	CCCP-L4034	AFL/Sykytyvkar	no	reports	became CCCP-74034 rgd 13may58
Yak-12M	<b>06 5 07</b>	CCCP-L4037	AFL/North Kavkaz	no	reports	became CCCP-74037 rgd 1958
Yak-12M	<b>06 5 11</b>	CCCP-L4038	AFL/North Kavkaz	no	reports	became CCCP-74038 rgd 1958
Yak-12M	<b>06 5 13</b>	CCCP-L4040	AFL/North Kavkaz	no	reports	became CCCP-74040 rgd 1958
Yak-12M	<b>06 5 38</b>	CCCP-L4061	AFL/Sykytyvkar	no	reports	became CCCP-74061 rgd 13may58
Yak-12M	<b>08 5 28</b>	CCCP-L4097	AFL/Sykytyvkar	mfd	27apr56	bwcame CCCP-74097 rgd 13may58
Yak-12M	<b>08 5 29</b>	CCCP-L4096	AFL/Sykytyvkar	no	reports	became CCCP-74096 rgd 13may58
Yak-12M	<b>10 5 04</b>	CCCP-L4179	AFL/Sykytyvkar	no	reports	became CCCP-14179 rgd 13may58
Yak-12M	<b>11 5 09</b>	CCCP-L4197	AFL/Far East	rgd	11may57	became CCCP-14197 rgd 29may58
Yak-12M	<b>11 5 10</b>	CCCP-L4198	AFL/Uzbekistan	rgd	31oct56	became CCCP-14198 rgd 1958
Yak-12M	<b>11 5 20</b>	CCCP-L4249	CCCP-L4249	mfd	02jul56	rgd 11may57; became CCCP-14249 rgd 29may58
Yak-12M	<b>11 5 22</b>	CCCP-L4251	AFL/Far East	rgd	11may57	became CCCP-14251 rgd 29may58
Yak-12M	<b>11 5 37</b>	CCCP-K4254	AFL/Magadan	rgd	04oct57	became CCCP-14254 rgd 29may58
Yak-12M	<b>12 5 25</b>	CCCP-L4278	AFL/Tajikistan	rgd	13dec56	w/o 23jun57 on a crop-spraying; c/n known now
Yak-12M	<b>12 5 29</b>	CCCP-L4283	AFL/Far East	rgd	11may57	became CCCP-14283 rgd 29may58
Yak-12M	<b>12 5 39</b>	CCCP-14290	AFL/Moscow SPiMVL	dbr	21aug63	details unknown, no casualties; t/t 3,773 hours
Yak-12M	<b>14 5 23</b>	CCCP-T1066	AFL/North Kavkaz	no	reports	became CCCP-21066 rgd 29may58
Yak-12M	<b>14 5 37</b>	CCCP-T1084	AFL/North Kavkaz	no	reports	became CCCP-21084 rgd 29may58
Yak-12M	<b>14 5 39</b>	CCCP-L1091	AFL/North Kavkaz	no	reports	became CCCP-21091 rgd 29may58
Yak-12M	<b>15 5 01</b>	CCCP-L1090	AFL/North Kavkaz	no	reports	became CCCP-21090 rgd 29may58
Yak-12M	<b>17 5 15</b>	CCCP-Sh438	AFL/Sasovo Fl.Sch.	rgd	10jan57	became CCCP-56438 rgd 1958
Yak-12M	<b>20 5 35</b>	CCCP-T642	AFL/Far East	mfd	01feb57	rgd 07may57; became CCCP-62642 rgd 29may58
Yak-12M	<b>21 5 04</b>	CCCP-T664	AFL/North Kavkaz	mfd	18jan57	became CCCP-62664 rgd 29may58
Yak-12M	<b>21 5 18</b>	CCCP-T696	AFL/North Kavkaz	no	reports	became CCCP-62696 rgd 29may58
Yak-12M	<b>21 5 23</b>	CCCP-L1031	AFL/Sykytyvkar	no	reports	became CCCP-21031 rgd 13may58
Yak-12M	<b>22 5 04</b>	CCCP-L739	AFL/North Kavkaz	no	reports	became CCCP-72739 rgd 29may58
Yak-12M	<b>22 5 30</b>	CCCP-L778	AFL/North Kavkaz	no	reports	became CCCP-72778 rgd 29may58
Yak-12M	<b>23 5 21</b>	CCCP-T803	AFL/Turkmenistan	rgd	12feb58	became CCCP-21076 rgd 1958
Yak-12M	<b>23 5 40</b>	not known	DOSAAF	no	reports	a plate on the nose bulkhead showed '23540'
Yak-12M	<b>24 5 40</b>	CCCP-K716	AFL/Sykytyvkar	rgd	17sep57	became CCCP-72716 rgd 13may58
Yak-12M	<b>26 5 04</b>	CCCP-I157	MAP zavod # 64	rgd	02jan58	became CCCP-03568 rgd 26jun58 and later CCCP-98119 rgd 02dec65; canx 07oct66

Yak-12M	<b>26 5 17</b>	CCCP-K787	AFL/North Kavkaz	no	reports	became CCCP-72787 rgd 29may58
Yak-12M	<b>26 5 18</b>	CCCP-K790	AFL/North Kavkaz	no	reports	became CCCP-72790 rgd 29may58
Yak-12M	<b>27 5 04</b>	CCCP-L847	AFL/Estonia	rgd	28nov57	became CCCP-K847 and later CCCP-40847 rgd 09dec59
Yak-12M	<b>27 5 06</b>	CCCP-K853	AFL/North Kavkaz	no	reports	became CCCP-40853 rgd 29may58
Yak-12M	<b>27 5 07</b>	CCCP-K854	AFL/North Kavkaz	no	reports	became CCCP-40854 rgd 29may58
Yak-12M	<b>27 5 08</b>	CCCP-K855	AFL/North Kavkaz	no	reports	became CCCP-40855 rgd 29may58
Yak-12M	<b>28 5 35</b>	CCCP-T121	AFL/North Kavkaz	no	reports	became CCCP-21216 rgd 29mar58
Yak-12M	<b>30 5 05</b>	CCCP-L0705	AFL/Sykytyvkar	no	reports	became CCCP-40705 rgd 13may58
Yak-12M	<b>30 5 20</b>	CCCP-T0707	AFL/Lithuania	rgd	25feb58	became CCCP-40707 rgd 14may58
Yak-12M	<b>6 12 7 81</b>	CCCP-L746	AFL/Sykytyvkar	rgd	17sep57	became CCCP-72746 rgd 13may58
Yak-12M	<b>6 12 7 82</b>	CCCP-L747	AFL/Sykytyvkar	rgd	17sep57	became CCCP-72747 rgd 13may58
Yak-12M	<b>6 12 7 107</b>	CCCP-L859	AFL/Sykytyvkar	no	reports	became CCCP-40859 rgd 13may58
Yak-12M	<b>6 12 7 108</b>	CCCP-L861	AFL/Sykytyvkar	no	reports	became CCCP-40861 rgd 13may58
Yak-12M	<b>8 12 7 199</b>	CCCP-T621	AFL/North Kavkaz	no	reports	became CCCP-62621 rgd 29may58
Yak-12M	<b>8 12 7 200</b>	CCCP-T623	AFL/North Kavkaz	no	reports	became CCCP-62623 rgd 29may58
Yak-12M	<b>9 12 7 201</b>	CCCP-T624	AFL/North Kavkaz	no	reports	became CCCP-62624 rgd 29may58
Yak-12M	<b>9 12 7 202</b>	CCCP-T625	AFL/North Kavkaz	no	reports	became CCCP-62625 rgd 29may58
Yak-12GR	<b>9 8 208</b>	CCCP-T631	AFL/Sykytyvkar	rgd	15feb58	became CCCP-62631 rgd 13may58
Yak-12GR	<b>9 8 209</b>	CCCP-T636	AFL/Sykytyvkar	rgd	15feb58	became CCCP-62636 rgd 13may58
Yak-12M	<b>9 8 222</b>	CCCP-T647	AFL/Lithuania	rgd	21feb58	became CCCP-62647 rgd 14may58
Yak-12M	<b>11 8 352</b>	CCCP-22241	AFL/Far East	mfd	1958	dbr 08dec61 when ended up in the sea
Yak-12A	<b>03 6 33</b>	CCCP-90537	AFL/Kazakhstan	mfd	1958	w/o 28dec63, details unknown; t/t 2,840 hours
Yak-12A	<b>3 9 082</b>	CCCP-44352	AFL/Ukraine	dbr	25nov64	at Simferopol
Yak-40K	<b>9 82 05 58</b>	T-450	Angolan Air Force	LAD	04sep18	confirmed preserved at the base museum
Yak-40K	<b>9 84 14 59</b>	RA-87224	no titles	photo	18jul17	displayed in the "Y.E.S" dinosaur park at Striznevo
Yak-42D	<b>452042 14 01 018</b>	EK-42018	Halla Airlines	MGQ	03nov19	white with titles and a blue and orange motif on the tail
ARJ21-700	<b>128</b>	B-604C	Chengdu Airlines	d/d	22nov19	
CJ6A	---	4873/83	Chinese Air Force	photo	oct19	AU FBTB/1st Reg
H6A	<b>05 24 03</b>	30313	Chinese Air Force		03nov19	Changan Campus NW University; c/n known now
H6M	<b>19 24 10</b>	40572	Chinese Air Force	CGQ	10may19	c/n known now
H6K	---	20214	Chinese Air Force	photo	oct19	
Y9	---	10657	Chinese Air Force	photo	14oct19	4th Div/11th Reg
Y8G	---	30015	Chinese Air Force	KWE	15oct19	ex 2101.
Y8G	---	30016	Chinese Air Force	KWE	15oct19	version not confirmed
Y8G	---	30017	Chinese Air Force	KWE	15oct19	version not confirmed
Y8/9 ?	---	31013	Chinese Air Force	KWE	15oct19	
Y8/9 ?	---	31018	Chinese Air Force	KWE	15oct19	

## PH register

### Newly registered aircraft:

PH-ADO	CL-600-2D24 (CRJ900ER)	<b>15129</b>	10oct19	Ex S5-AAL.
PH-ADQ	CL-600-2D24 (CRJ900ER)	<b>15207</b>	16oct19	Ex S5-AAN.
PH-ADU	CL-600-2D24 (CRJ900ER)	<b>15128</b>	16oct19	Ex S5-AAK.
PH-AFE	Alpi Aviat Pioneer 400	<b>032</b>	23oct19	
PH-ANK	Robinson R44 II	<b>14347</b>	16oct19	
PH-AWC	Cessna 172P	<b>17274510</b>	07oct19	Ex HA-TUT.
PH-BAE	Aquila AT01-100	<b>AT01-100A312</b>	24oct19	Ex G-GAEC.
PH-BKC	Boeing 787-10	<b>42503</b>	11oct19	
PH-DHD	Cessna 172N	<b>17269065</b>	11oct19	Ex G-IDHC.
PH-MDB	Cessna 172K	<b>17258604</b>	14oct19	Ex PH-MDB, N84758.
PH-MLZ	Socata TB-20	<b>1469</b>	08oct19	Ex I-OHDB.
PH-TTK	Cameron A-250	<b>12222</b>	30oct19	"Top Totaal" advertisement.
PH-VRV	Van's RV-3B	<b>11232</b>	25oct19	Ex OE-AMP.
PH-4S6	Shark Aero CZ Shark	<b>062/2016</b>	29oct19	Ex OY-9467.
PH-4T7	TL-3000 Sirius	<b>19 SI 185</b>	30oct19	
PH-4T9	SkyStar Kitfox	<b>1785</b>	08oct19	Ex D-ENMK.
PH-4U1	Pipistrel Taurus 503	<b>165 T 503</b>	04oct19	
PH-1604	Grob G-109	<b>6033</b>	30oct19	Ex SE-UUD.
PH-1628	Schempp-Hirth Duo Discus T	<b>303</b>	28oct19	

### Change of ownership:

PH-SHC	Glasair Sportsman 2+2	<b>7254</b>	07909	03oct19
PH-THI	Titan T-51 Mustang	<b>M06XXXCOHK0096</b>	08974	25oct19
PH-1038	Grob G102 Astir CS Jns	<b>2193</b>	05008	22oct19
PH-1495	Schleicher Ka 6E	<b>4222</b>	07812	25oct19
PH-1590	Schempp-Hirth Nimbus-3T	<b>8</b>	09185	03oct19

### Cancelled from register:

PH-CWT	Lindstrand LBL-150A	<b>974</b>	06578	14oct19	More than one year without valid airworthiness document.
PH-EWG	Tecnam P2008 JC	<b>1106</b>		25oct19	To India.
PH-FCF	Socata TB-20 Trinidad	<b>957</b>		02oct19	To G-HFCF.
PH-HAN	Neico Lancair 360	<b>248</b>	04928	04oct19	To France.
PH-HSW	Boeing 737-8K2	<b>37160</b>	08065	28oct19	To PR-HSW.
PH-HXG	Boeing 737-800	<b>41355</b>	09328	14oct19	To PR-GZQ.
PH-KWB	Cameron A-140	<b>3687</b>		24oct19	Withdrawn from use.
PH-LAG	Piper PA-28-181	<b>28-8090296</b>	05164	14oct19	Crashed at Breda Airport (Seppe), 7 September 2019.
PH-LHU	Tecnam P2002-JF	<b>155</b>	07748	25oct19	To G-CLJY.

PH-LML	Fokker 100	11287	30oct19	Withdrawn from use.
PH-LNJ	Fokker 100	11342	30oct19	Withdrawn from use.
PH-NHV	Airbus Helicopters EC175B	5002	08407 25oct19	To G-NHVU.
PH-RED	Piper PA-18-125	18-568	07650 14oct19	Mid-air collision with PH-VCY near Willemstad, 21 June 2019.
PH-VCY	Piper PA-18	18-3601	03443 14oct19	Mid-air collision with PH-RED near Willemstad, 21 June 2019.
PH-3C4	Cosmos Phase II	21271	20501 14oct19	More than one year without valid airworthiness document.
PH-7X5	Adventure X-Tiger	41627	08344 28oct19	More than one year without valid airworthiness document.
PH-8Z9	Fresh Breeze SportiX 122	1388	20900 21oct19	More than one year without valid airworthiness document.
PH-9B5	Fresh Breeze Snap 120	235	20898 28oct19	More than one year without valid airworthiness document.
PH-9B8	Fresh Breeze 122 AL 2 F	1701	20949 31oct19	More than one year without valid airworthiness document.
PH-9J5	Walkerjet RR	DE-35	20800 25oct19	More than one year without valid airworthiness document.
PH-9X8	Fresh Breeze Monster	222	20691 14oct19	More than one year without valid airworthiness document.
PH-1145	Schleicher ASW-20	20495	05610 28oct19	To Lithuania.
PH-1398	DG Flugzeugbau LS 8-t	8523	07203 02oct19	To Germany.

Credits: Inspectie Leefomgeving en Transport, ballonregister.nl.



Test registration of this ANWB H135 was D-HECM. Delivered from Airbus Donauworth to Lelystad on 30 September 2019, PH-DOC is seen touching down, and will replace PH-MMT as Lifeliner 4 when the latter will be withdrawn from use in December 2019. Before that a medical kit needs to be installed first though and striping needs to be added. (Lelystad, 4 November 2019, Jan Bekker)

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The aircraft on this page represent pre-war historic machines flying in Germany. The oldest aircraft in the German register is 1927 built Klemm L.25 D-EBMX. It is owned by Ulf Siegert of Ampfing. (All three 14 September 2019, Hahnweide, Ad Jan Altevoigt)



Stefan Kuehlbrey of Pattonville is the proud owner of this Stinson SR9C Reliant NC18442. Now painted in Gullwing Airlines colours, the aircraft once belonged to the famous Henry Ford as his personal transport.



Ryan STA Special NC17360 looks like a sportsplane for the rich and famous, but is in fact a former Mexican Air Force trainer, built in 1937. It took Günther Kälberer more than six years to restore it to airworthy condition.

# Wrecks & Relics



Former Czech MiG-21MF 5303 is parked outside a shelter at Eschbach Bremgarten. It is not with the well-known Meier Motors restoration company, but is privately owned. (14 November 2019, Tim Jones)

## Netherlands

### Baarlo

B-40	Bo105CB4	stored	S.240	oct19
(B-68)	Bo105CB4	stored	S.268	oct19
(21261)	CT-133	(G-TBRD, stored, cockpit 261		oct19

B-68 still needs confirmation as the serial was only on a label (both ex Neuhausen ob Eck). The third Bo105 is a civil example. The T-Bird is from the closed down collection at Alten Buseck.

### C-31A 85-01608

The US Army's Golden Knights F27-400M 85-01608 was for sale in October at the U.S. General Services Administration (GSA) website. It has been bought by the Dutch Stichting Vliegend Nederlands Cultureel Erfgoed foundation and will come to the Netherlands in 2020. During the on-line auctions the aircraft was still operational at the Fort Worth Alliance Airshow.

## Austria

### Vienna

L-29R 2614 is no longer at the airport. It has been reported as gone to school in the town as instructional airframe.

## Belgium

### Moorsele

Correcting Scramble 485. The new Piper Super Cub OO-CUB here is yellow and ex R-107/KLu (ex G-CCKW, ex Kortrijk). This is a different aircraft than the camouflaged OL-L50 (ex D-EKOH). The later one was last noted at Antwerp in restoration.

## Bulgaria

### Kazanlak

129	MiG-15UTI	preserved		apr19
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This MiG is preserved behind a stone wall at the HUMU (Scientific Research Technological Institute) at N42.60247, E25.38235.

## Czechia

### Luhačovice

(1770)	An-2PS	OK-VHB	1G117-70	aug19
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The Antonov used to be at Kroměříž.

## France

### Bordeaux Mérignac (33)

A151/11-YD	Jaguar A	preserved, ex code 7-HJ		jun19
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The restoration of the aircraft has finished and the aircraft is preserved on base in desert colours.

### Lunéville Chenevière (54)

In June 2019 an unknown bare metal F-86 Sabre (radar nose type) was noted dismantled at the military side of the former airfield. It is intended to be pole mounted.

### Lyon Corbas (69)

01	Mirage 3B	preserved		01 nov19
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The Mirage is a new addition to the Espaces Aéro.

### Melun Villaroche (77)

1076	Alouette 2	stored		1076 jun19
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The former Rennes storage Alouette is parked in the France's Flying Warbirds (FFW) hangar.

### Saintes Thénac (17)

88/115-KV	Mirage 2000C	instructional		340 nov18
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The Mirage was delivered from Châteaudun to the L'école d'enseignement technique de l'armée de l'air (EETAA) on 23 November 2018. The report that it went to Saint Dizier seems to be wrong.

### Mirage F1B

Four Mirage F1Bs were sold from Châteaudun to a company in South Africa. They have ended up at Lakeland, FL. They are 504/N551EM, 509/N552EM, 511/N553EM and 516/N554EM.

## Germany

### Elz (HE)

63	TB30	N815N		63 oct19
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The Epsilon arrive in October and is with Eichhorn Airadventures.

### Eschbach - Bremgarten (BW)

5303	MiG-21MF	preserved		965303 nov19
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The former Czech MiG-21 is parked in a corner at the ramp (N47.89836, E7.62014). It is privately owned and has no connection with the warbird restorers next door.

### Paderborn Lippstadt (NW)

(56+92)	Do27B-3	D-EDNU		401 sep19
(2246)	Me108D-1	D-EBEI		2246 sep19

The former Lufthansa Historic Flight from Hamburg are now part of the Quax Flieger group.

### Stetten an der Kalten Markt (BW)

71+43	UH-1D	range		8203 nov19
72+96	UH-1D	range		8416 nov19
73+16	UH-1D	range		8436 nov19
(84+95)	CH-53G	range		V65-093 nov19

All four were noted at the range which is north west of the barracks and town. For example 73+16 was parked here N48.175873, E9.00805. Still at the barracks were F-84F DD+306 (painted as DD+113) and F-104G 25+99 (painted as 21+76).

Wissen Alserberg (RP)

(86+69) Bo105P preserved, as D-HILF **6069** May18  
The Bo105 is preserved on the roof of the Helmert auto repair shop at N50.78594, E7.72412.

## Greece

Tatoi

Former Glyfada F-104G 6677, which arrived at the museum last year, has been repainted as 7415. There are now two F-104s marked 7415, as the original 7415 is also at the museum.

## Hungary

Börgönd

(19)	SM-1	stored	<b>W02019</b>	sep19
(032)	SM-1	stored	<b>401032</b>	sep19
36	SM-1	stored	<b>W04036</b>	sep19

Three SM-1s are stored in an old hangar now owned by a farmer. Only 36 was actually read. Still preserved here is MiG-51bis 071.

Hajdúhadház

(428)	Mi-8T	stored	<b>200428</b>	
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Some research by Phil Adkin revealed that the only candidate for the unknown Mi-8 at military training area is 428. 10425 is the other Mi-8 here (N47.66830, E21.71650).

Papa

4605	MiG-21MF	preserved	<b>964605</b>	sep19
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The MiG-21MF (ex Szolnok) is pole mounted on a roundabout on the east side town at N47.32142, E17.44601.

Szolnok

05	MiG-29B	preserved	<b>35148/4513</b>	aug19
076	Zlin Z43	HA-FBK, preserved	<b>0076</b>	aug19

Both are new at the museum in town. The MiG-29 came from Kecskemét and the Zlin from Szandaszőlös.

Tököl

(54 white)	Mi-26	stored, cockpit	<b>34001212099</b>	oct19
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Mi-26 54 white (ex Belarus) was used for the movie A Good

Day to Die Hard in 2012 painted as 27 white in Soviet colours. It was burned in the process. Its cockpit survived and is stored at Tököl.

## Italy

Milano Malpensa (MI)

MM81434/EI-963	A129CBT	preserved	<b>29066</b>	sep19
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The Mangusta is a new addition to the Volandia collection.

Pratica di Mare (RM)

MM7037/RS-70	Tornado	preserved	<b>5046</b>	oct19
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The Tornado is pole mounted in the RSV area. It carries the 70th anniversary RSV livery.

Roma (RM)

MM6434/60-84	G91T/1	stored, ex Cámeri	<b>115</b>	oct19
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This Gina is new in the Bentivoglio scrapyard. It takes the place of F-104S MM6797/5-36 which is gone.

## Norway

Kjeller

330	Sea King Mk43B	stored	<b>WA1012</b>	sep19
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The Sea King made its last flight on 26 September for storage with Kongsberg Aviation Maintenance Services (formerly known as Aerospace Industrial Maintenance).

Super Cub

Former Swedish Flp51B SE-CKC/51261 last seen as a wreck at Bromma in June 2001. LN-AAB has now been reserved for the aircraft by a Sandnes (near Sola) owner. It is still a restoration project.

## Portugal

Beja

15229	Alpha Jet	preserved	<b>0091</b>	nov19
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There are now four aircraft preserved at the gate. This Alpha Jet has joined F-104G 22+62, T-33A 1951 and T-38A 2610.

Montijo

This summer Sevenair for Cascais bought six CASA 212s from the Air Force. The aircraft involved are 16504, 16505, 16509, 16512, 16513 and 16517. Off these 16504 and 16509 will be based at Cape Verde. All six were still in storage at Montijo in November 2019.



Alpha Jet 15202 is preserved on a pole at the Portuguese Air Force Academy at Sintra. It is on the same spot where G91R/3 30+79 (painted as 5457) used to be. This Gina went to Ota for restoration some two years ago. (7 November 2019, Wim Sonneveld)



German Army UH-1D 72+96 is one of the three UH-1s seen on a very cold October day at the Stetten Am Kalten Markt range (18 November 2019, Tim Jones)

**Sintra**  
15202            Alpha Jet            preserved            **0006** nov19  
The Alpha Jet is pole mounted at the academy.

### Slovakia

**Košice**  
(80-23495)            UH-60A            OM-BHB            **70-253** sep19  
The Slovak Training Academy received their second Blackhawk in September. They also have UH-60A OM-BHK/81-23552 and ex Swedish Hkp5B OM-ARS/05240.

### Slovenia

**Pivka**  
40126            Aero 3            YU-CZC, stored            sep19  
The Aero is new with the Park Vojaške Zgodovine and came from Ajdovščina

### Spain

**Granada Ogjires**  
Z.7-13            AB47G-3            preserved            nov19  
A Bell 47 is pole mounted since August 2019 at the roundabout at Ogjires at N37.12285, W3.61712. It is on loan from the military for 5 years. Its identity is unknown as the real Z.7-13/HE.7-13 is still at Cuatro Vientos.

**Ocaña**  
E.3B-488            CASA 1131E            EC-DAM, stored            **2160** nov19  
E.3B-581            CASA 1131E            EC-DAR, stored            **2174** nov19  
E.3B-617            CASA 1131E            EC-DAV, stored            **2217** nov19  
                          CASA 1131E            stored, yellow c/s            nov19  
(U.9-62)            Do27A-1            EC-CFP, stored            **166** nov19

The former TRAGSA hangar which was emptied in November and the above five aircraft will all have gone to Cuatro Vientos.

### Sweden

**Kristianstad**  
43-30503/69-F            L-4H            SE-CLR            **11794** aug19  
The Cub can now be found in an open shelter at the far side near the parachuting club.

**Sebbarp**  
(45-4524)            L-4J            SE-AYZ            **13384** aug19  
This Cub was listed as base unknown in EMOOS.

### Turkey

**Ankara**  
67-0274            F-4E            preserved            **3009** aug19  
This F-4 is at the Kartaltepe Park at the north side of the town (N40.00938, E32.82033) and had arrived by August 2017.

**Burdur**  
67-0331            F-4E            preserved            **3163** oct19  
The Phantom is preserved at a traffic island at N37.72414, E30.27705.

### United Kingdom

**Elvington, North Yorkshire**  
XN589/46            Jet Provost T3A            **PAC/W/12191** nov19  
The Yorkshire Air Museum took delivery of a Jet Provost from RAF Linton-on-Ouse on 31 October 2019.

**Newark, Nottinghamshire**  
The Newark Air Museum has acquired Typhoon ZH590 from the Imperial War Museum. Delivery is expected in early 2020.

**St Athan, Wales**  
New at the South Wales Aviation Museum is the cockpit of Meteor T.7 (WL405). It arrived by late September.

**RAF Waddington, Lincolnshire**  
XX818/DE            Jaguar GR1            instructional            **S67** oct19  
A Jaguar was delivered from RAF Cosford to the Fire Service training complex close to the WAVE on 8 October 2019.

### Wainfleet, Lincolnshire

XX499/G            Jetstream T1            preserved            **425** oct19  
A Jetstream arrived at the former RAF Wainfleet on 10 October 2019, where it will join Lynx AH9A ZG914 as holiday accommodation. It came from Everett Aero, where it had been since May after being removed from the Brooklands Museum.

Credit: Rui Ferreira, Tim Jones, Gavin Mills, Paco Rivas, Ben Sadler.



The cockpit of former Belarus Mi-26, c/n 34001212099, can be found at Tököl, Hungary (27 October 2019, Vaclav Kudela)

# Warbirds



This P-51D Mustang, 44-73254 (N6328T) is seldom seen outside its home country, Germany. So it was a nice catch for one of our readers, Ad Jan Altevogt, when he visited the Oldtimer Fliegertreffen in Hahnweide on 14 September. This Mustang was built for the USAAF in 1944 but did not see action in WW II, but postwar went to the RCAF instead, as 9571. It was civilianised in 1957 and registered as N6328T. It crashed in May 1963, but was ultimately rebuilt, making its second first flight in 1978 as 'Buster'. The fighter was acquired by Wilhelm Heinz of Albstadt-Degerfeld in 2013. He renamed his Mustang 'Louisiana Kid' as a tribute to the American state where it had flown for 35 years.

## Netherlands

We are happy to report you that Royal Netherlands Air Force Historic Flight owned North American Mitchell PH-XXV (108-32782) has returned to the skies. After three years on the ground, it made its first flight at Gilze-Rijen on 31 October. Just for the record: the largest warbird of the Netherlands was built for the USAAF as B-25J 44-29507, but for a number of years it impersonates a Royal Netherlands East Indies Air Force Mitchell with serial N5-149/232511, named 'Sarinah'.

A new group in the Netherlands, the 'Stichting Vliegend Nederlands Cultureel Erfgoed' (Flying Dutch Cultural Heritage Foundation) has acquired an airworthy Fokker Troopship in the USA. This aircraft, a C-31A with serial 85-1608, has recently been retired from use as a jump platform for the US Army's Golden Knights parachute team. The designation C-31A was used by the US authorities for the type that Fokker called the F27-400M. According to the 'Stichting Vliegend Nederlands Cultureel Erfgoed' this rather rare Troopship is scheduled to be flown back to its birthplace in 2020.

## Australia

In February of this year, the nine aircraft of the Royal Australian Navy (RAN) Historic Flight were sold by tender. Much to the relief of the Australians, the complete inventory was taken over by the Historic Aircraft Restoration Society (HARS) Aviation Museum at Albion Park. In the past months HARS engineers have worked on Grumman S-2G Tracker, RAN 844 (VH-NVX). It is now Australia's only airworthy Tracker, making its first flight in ten years from HMAS Albatross at Nowra, New South Wales on 14 September. At the end of this short flight RAN 844 was delivered at the HARS at Albion Park. In the years 1967 to 1984, the Royal Australian Navy operated 32 Trackers, of which now at least one is back to flying condition.

## Belgium

Although not a real 'war'bird, the Stampe & Vertongen SV-4B D-EIHD (1169) that arrived at Antwerp on 26 October has a military background. It used to fly for the Belgian Air Force as V-27 before going to the UK as G-AZUL. At that time it still fancied an enclosed cockpit. The cockpit hood was later removed when the biplane became D-EIHD. Based at Aachen-

Merzbrück, Germany, the aircraft was a regular visitor of both Antwerp and Schaffen-Diest. D-EIHD has been reregistered as OO-RAY to new owner Raymond Cuypers.

## Canada

Early in November, the Hangar Flight Museum in Calgary has welcomed a new arrival: Hawker (CCF) Hurricane Mk.XII 5389 (42024). The fighter has been restored to flying condition. However, due to its value and certain liability issues, the City of Calgary has decided not to let it actually fly. It will be housed at the Museum in Calgary and kept in operational, future taxable (expected spring 2020) condition. Hurricane 5389 is an RCAF 133 squadron veteran and finished in its original wartime colours with code 'M'. The cost of the restoration was shared by the city of Calgary and the Calgary Mosquito Society, which each brought in close to \$800,000. The restoration by Historic Aviation Services at the airport of Wetaskiwin took 23,000 hours. When 5389 arrived there seven years ago, it was nothing more than a life size jigsaw puzzle without a picture on it. But it is now better than ever! Hurricane 5389 was delivered to the RCAF in June 1942. Initially based in Alberta, it was shipped to British Columbia after Pearl Harbor, where it was used to patrol the Canadian coastline against possible Japanese incursions. The fighter eventually crashed (struck of charge August 1946), and then sold for scrap to a Saskatchewan farmer before it was bought by a Calgary aviation historian. In the late 60s, the City of Calgary acquired the dis-assembled plane, and it sat in storage for decades before the restoration project began.

## France

There is a chance that well known French Curtiss P-40N F-AZKU 'Little Jeanne' will leave that country. The fighter is offered for sale through Sonoma Valley Aircraft for a mere \$ 1.9 Million. USAAF 42-105915 (29677) was salvaged in Papua New Guinea in 1974 and restored to flying condition in New Zealand and Australia (VH-KTI). It was imported in France by Christian Amara in 2008 and is currently flown by France's Flying Warbirds in Melun. Let us hope that it stays in Europe!

On 6 October the collection of Salis Flying Museum at La Ferté was expanded by the arrival of Morane Saulnier 315 '254'

F-AZAH (254). This parasol monoplane belonged to Christian Martin, member/founder of Aéro Rétro in Saint Rambert d'Albon. F-AZAH is one of the first French historic aircraft restorations ever, and also one of the first that was taken up in the historic, CNRAC.

### United Kingdom

Locally known as 'Maid of Harlech', the wreckage of USAAF Lockheed P-38F 41-7677 (5604) lies under water off the coast of Harlech in Gwynedd, North Wales. The watery grave of the Lightning has recently received a so-called protected status. The announcement makes the plane the first designated military aircraft crash site to be given protected status for its historic and archaeological interest in the UK. It means that no salvage activities can be undertaken without the approval of the British authorities. Lockheed P-38F 41-7677 was flown by the then 24-year-old Second Lt. Robert F. Elliott, who crash-landed after running into difficulties during a gunnery practice mission on 27 September 1942. Elliott escaped from the wreckage without injuries but was sadly reported missing in action just a few months later. Following the crash-landing, the Lightning was buried by several feet of sand. Depending on tides the downed plane is sometimes visible with the first sighting in the 1970s and most recently in 2014. The future salvage of the Lightning is coordinated by a group called The International Group for Historic Aircraft Recovery (TIGHAR). This organisation hopes to be able to remove the remarkably intact wreckage from the sea. These activities will be taken up, as soon as it is known which museum will care for the conservation of this historic P-38F.

Good news for the fans of early jets: Hawker Hunter Aviation Ltd. at RAF Scampton performed the first trials of Hunter T72 XE688's Rolls Royce Avon engine. The two-seater is a former chaseplane which was used by Brazilian manufacturer Embraer as PP-XHH. It still adorns the beautiful livery from those days. XE688 had arrived at Scampton in September last year. The aircraft's history is an obscure one: XE688 was actually built as F4 XE704 (HABL 003035). For some reason or the other the factory plate located in the nose gear bay is for ex-Chilean J-736 which had a construction number of HABL 003031. This Chilean aircraft was also built as an F4 and allocated the serial XE688. Records show XE688 was written off in 1957 however the factory plate has found its way on to this aircraft - it is thought the front fuselage/nose section of the original XE688 was used to convert the aircraft into a T72

and the data plates were never changed.

### United States

There are currently no airworthy Hawker Tempests in the world. This is in strange contrast with a fair number of flying (Sea) Furies, the close relative of the Tempest. But there are a number of Tempest restorations around the world, one of which is for sale. Offered through an Argentinian (!) broker, Hawker Tempest II MW404 project is for sale. This fighter was built in 1945 and served with No. 247 Squadron RAF from Chilton in Hampshire, England. After it had been in service for two years the plane was bought back by the manufacturer, refurbished and sold to the Indian Air Force (IAF), entering active duty as HA557 in 1948. After the type was retired from front line service in 1954, HA557 was assigned to decoy duties at Poona Air Force Base, along with at least a dozen other Tempest IIs. In 1979 the fighter was bought by Doug Arnold, who had it shipped to the UK. In 2012 the project was acquired by Chris Miller of Spring-Hooks Airport (TX). Chris intended to restore the Tempest to an airworthy state. A rebuilt Curtiss-Wright R-3350 radial engine and propeller from a Douglas Skyraider had been acquired, less expensive to purchase and maintain than the original Bristol Centaurus engine and Rotol propeller. Restoration has continued until June of this year, but it now seems that they have given up.

On 12 November, another Flug Werk FW190, N190AF (990011) made its first flight. With John Maloney at the controls, the fighter made a successful flight from Clermont County Airport in Batavia (OH). This is the home of the Tri-State Warbird Museum, the owner of the FW190. N190AF is a reproduction built by Flug Werk GmbH of Gammelsdorf, Germany as part of a limited production run of 21 aircraft. It is based upon the data plate of an Fw 190 F-8 built by Arado Flugzeugwerke. This aircraft, **WerkNr.583661**, was written off in combat in 1944 and was recovered from its crash site in 2000. After spending four years supervising the construction of the aircraft in Germany, Dr. Thomas Summer of Lafayette (IN) generously donated it to the museum in December 2007. It has been refitted with a Pratt & Whitney R-2800-57M2 which sports a, non-standard, scoop on top of the engine cowling, which gives access to the downdraft carburettor. N190AF is painted to represent a late war aircraft, featuring low visibility markings, with code 4 white.

Credits: Flypast, Foxalphazolou, Key Aero, Tri-State Warbird Museum



This Warbird section of Scramble is a sort of 'Hahnweide special' as all the photos shown here were taken there on 14 September, and all of them by Ad Jan Altevoigt. He caught this Aeronca L-16, N94578, painted in USAF livery. The L-16 was the military version of the Aeronca 7BCM and used as an artillery observation plane during the Korean War, replacing the Piper L-4 Cub/Grasshopper.



Another three visitors of the Oldtimer Fliegertreffen. From top to bottom: Hispano HA-1112-M1L Buchon G-AWHH, Beech AT-11 Kansan N15KK and Heliopolis Gomhouria D-EGZR. G-AWHH was restored by Air Leasing Ltd. of Sywell, UK in 2017 and is painted in the colours of 'White 9' as was flown by Luftwaffe ace Edmund Rossmann (93 kills) The only airworthy machine of its kind in Europe is Kansan N15KK (42-37337) The former USAAF bombing and gunnery trainer is owned by Karl Grimminger. Coming from the USA, it arrived at its new home base Aalen Heidenheim Elchingen Airport in July this year. Gomhouria D-EGZR is an Egyptian, licence built, version of the wartime Bücker 181 Bestmann. This 1969 built example of the trainer was flown as '347' by the Egyptian Air Force. And it is good to see that its owner, Ludolf Ungerer of Nordholz-Spieka, took the decision to retain the aircraft's original livery! (all Hahnweide, 14 September, Ad Jan Altevogt)

# Dustpan & Brush



A sad day for the warbird's world, as MD Aviation lost a Grumman Mohawk (former 68-15958 of the US Army) after it crashed at Witham Field (FL), during the Stuart Air Show. The Mohawk is seen here performing during the Tyndall AFB (FL) air show on 23 April 2017, by Ramon Berk

## New Accidents:

30sep19 UR-CKL An-12BK **01348005** dam

Cavok Air's An-12 collided with a pole while taxiing for departure at Liverpool International Airport. The left hand wing leading edge was damaged and a fuel leak occurred near the no.1 engine. It was meant to leave for Göteborg-Torslanda Airport, Sweden, but remained at Liverpool for repairs.

08oct19 SE-HPM Bell 206L-1 **45425** dam

While manoeuvring after lift-off and hovering from a mine, fifty kilometres north of Kiruna, Sweden, the Nordic Rotors Bell Long Ranger III rolled to the right and the main rotor hit the ground. The helicopter suffered extensive damage, but no personal injuries occurred.

11oct19 Z-8G w/o

After departing from Changzhou City, Guangxi Province, the People's Liberation Army Air Force Z-8G crashed at 19:40 hours local time into a mountain in Xupu County. All eleven persons onboard were killed. The accident was not reported at the time but finally revealed by Chinese state media on 26 October. The helicopter was participating in an exercise involving a mock surprise attack on Hong Kong, with Xupu County being used to represent Hong Kong.

14oct19 J-10 w/o

The PLAAF J-10 crashed under unknown circumstances at the Tibetan Plateau, China. The pilot ejected safely.

25oct19 N7... Be200 dam

Yet another drug related mishap. This time a Beech Super King Air was found to have crash-landed in Palajuyú, in the region of Sipacate, Guatemala, after an illegal flight in Guatemalan airspace. The aircraft likely originated from Honduras. Upon arriving at the landing site, the Guatemalan army was attacked with high-powered firearms. Following a shoot-out, the army found 1,5 tons of cocaine on the aircraft, along with a large number of weapons and ammunition.

25oct19 FAC0006 Bell 412EP **36585** w/o

A Fuerza Aérea Colombiana Bell 412EP had been missing since the afternoon of 25 October. Search operations for the crew and helicopter were in full swing soon after. The helicopter departed Palanquero Air Base, Puerto Salgar (Colombia) and was on its way to the Maintenance Air Command, Madrid, Cundinamarca (Colombia). Sadly they found the wreckage

the following day, with all occupants not having survived the crash. The white VIP helicopter belonged to Grupo de Vuelos Especiales (GRUVE) 82, Escuadrón de Transporte Especial 821 based at El Dorado, Bogotá.

26oct19 C-GBTU DHC-3T **209** w/o

A Blue Water Aviation Otter impacted the waters of Family Lake, Little Grand Rapids First Nation, in northern Manitoba, about 280 kilometres north-east of Winnipeg (MB). Sadly the pilot and his two passengers did not survive the impact.

27oct19 YI-BYO L-410UVP w/o

A Let 410 was involved in an accident near Bor Jonglei (South Sudan), after it came down fifteen kilometres from there. The Abeer Air Services Czech turboprop was flying in rain at the time of the accident. Photos from the accident show the aircraft having come to rest in an area with tall grass, shrubs and trees. The left-hand wing and horizontal stabiliser are bent upwards, the right-hand wing has separated at the engine and the nose section is demolished, making this most definitely a write-off. The aircraft left Walgak Airstrip earlier in the day, also in South Sudan. All four occupants were injured and transferred to local hospital.

27oct19 N530GA G1159SP **247** w/o

Another narcotics incident, this time a jet again! A Gulfstream II was observed illegally entering Guatemalan airspace and landed on a strip close to the Mexican border. Cargo was offloaded and armed men set the aircraft on fire before the Guatemalan Army arrived. Since the registration was not visible anymore the registration is not 100% confirmed, but checking images of N530GA (indeed a G1159SP) it pretty much is a 100% match...

29oct19 N959MJ Ce414A **414A0471** w/o

A Cessna Chancellor of Warbird Associates crashed into a New Jersey home, killing the pilot and leaving at least three homes "engulfed" in flames along the quiet, tree-lined Berkley Avenue in Woodbridge township, Colonia. The Cessna had taken off from Leesburg Executive Airport (VA) at 9:50 hours local time and was bound for Linden Airport (NJ).

29oct19 F-16 w/o

An F-16 Fighting Falcon crashed during a training flight near Holloman Air Force Base (NM). The USAF Viper was assigned to the 49th Wing and went down eighty miles south-east of

the base around 19:16 hours local time. The pilot successfully ejected and was being treated at a local hospital.

31oct19 N959CM Be58 **TH-1792** w/o  
A Caribbean World Resorts Beech Baron struck an SUV before crashing and bursting into flames at Southwest State Road 200 and Southwest 43rd Court, during a forced landing near Ocala-Taylor Field (FL), as it tried to return due to a mechanical issue during a maintenance flight. The aircraft was consumed by the post-crash fire and the two occupants onboard sustained fatal injuries. An occupant onboard the vehicle was injured.

31oct19 HL EC225LP w/o  
A Super Puma Mk2+ of the Gyeongbuk Fire Service, with seven people onboard, crashed into the Sea of Japan near a pair of islands disputed with Japan (called Takeshima in Japan and Dokdo in South Korea). The Eurocopter had picked up an injured crab fisherman with a severed thumb. The aircraft departed at 23:26 hours local time. Onboard were two pilots, three fire department responders, the patient and a friend. Divers found the wreckage 600m offshore at a depth of 72m. One body was recovered by an underwater remotely operated vehicle (ROV).

01nov19 N10VD OV-1D **162C** w/o  
A sad day for the warbird's world, as MD Aviation lost a Grumman Mohawk (former 68-15958 of the US Army) after it crashed at Witham Field (FL), during the Stuart Air Show. The aircraft was destroyed and the pilot was killed after it crashed on the approach end of runway 1, located at 2011 SE Airport Road. Because of the crash, Friday night's events were cancelled. The Stuart Air Show said the remainder of that weekend's events would go on as scheduled.

06nov19 MM81487/2-08 EH101-110ASW/ASuW **50039** dam  
A Marina Militare EH101-110ASW/ASuW (Merlin) crashed onboard the destroyer Caio Duillio during a training flight, and received substantial damage. All six helicopter crew members survived without injuries. The cause of the crash is under investigation.

08nov19 VH-OQB A380-842 **15** dam  
A door on a Qantas A380 was almost totally ripped off after one of the airline's double-deck planes struck scaffolding as it was being rolled out of a maintenance hangar at Sydney-Kingsford Smith Airport (NSW). The incident forced the cancellation of flight QF7 from Sydney to Dallas (TX), with the return flight (QF8) also being cancelled. Engineers expect it to take about two weeks to fix the damaged aircraft. Qantas already has two A380s on the ground undergoing refurbishment in Brisbane (Qld) and Abu Dhabi, UAE.

08nov19 XA-VBD Lj35A **35A-287** dam  
A Learjet 35A of Personas Y Paquetes Por Aire, suffered a runway excursion during a landing attempt at Los Cabos International Airport, Mexico. It left all four souls uninjured, but the Lear was substantially damaged.

10nov19 N827MW S-58JT **58-827** dam  
A Sikorsky S-58JT of Midwest Helicopter Airways experienced a main rotor blade strike with a stationary cargo trailer during a landing attempt at XPO Logistics, 135 S Mt Zion Rd, Lebanon, Boone County (IN). Luckily no one was seriously hurt (the pilot suffered only minor injuries, both occupants were uninjured), but the 1958-built helicopter was substantially damaged. There are only some fifteen S-58s still flying in the world, so it is a serious loss in the world of historic aviation, if the helicopter turns out to be a write-off.

11nov19 N237DX BAe125-700A **257148** w/o  
A Hawker Siddeley was found burnt on an illegal landing strip by law enforcement officers, at Petén, Guatemala. It had been used for transporting drugs. The aircraft involved was likely former N237DX, which was offered for sale out of Monterrey, Mexico for \$345,000 and reported by the FAA as sold to Mexico on 8 November 2019.

11nov19 N619AE EMB145LR **145101** dam  
A American Eagle flight AA4125, from Greensboro (NC) to Chicago-O'Hare (IL) and operated by Envoy, slid off runway 10L after almost having completed the flight. It slid off the left side of the runway about 1,600 metres past the threshold, near taxiway N1. The aircraft swung and came to rest with the right-hand wing tip in the snow. All three crew members and 38 passengers were OK and surprisingly everybody seemed pretty cool (pun intended) about it. The Embraer had gone around on short final to runway 10L about 25 minutes earlier after being instructed by tower to go around. Following the occurrence ATC changed to tell arriving aircraft that braking action was poor.

On the following YouTube vide you can hear a passenger commenting: "I think we landed!" [www.youtube.com/watch?v=sfK8AtLjc4Y](http://www.youtube.com/watch?v=sfK8AtLjc4Y)

13nov19 P2-MLJ Bell 214B-1 **28066** dam  
A McDermott Aviation Bell Big Lifter made a hard landing at Pechey, west of Brisbane (Qld), and came to rest on its side. The pilot survived the crash, the Bell received a lot of damage. Australia's east coast is being decimated by bush fires. Both Queensland and New South Wales are suffering from bushfires which are frequent events during the warmer months of the year, due to Australia's mostly hot, dry climate. About 1.1 million hectares have been scorched in NSW since September, and Queensland has also suffered massively.



A Mil Mi-8MT of the Polish Air Force (6104) tipped to its left side and hit the ground while landing in Leczyca, Łódzkie region, in Poland, on 3 October. It sustained substantial damage with the main rotor cutting off the tail boom. Wim Sonneveld captured the chopper on 15 August 2018 at Warszawa-Frederic Chopin.

14nov19 PT-LTJ Ce550 **550-0225** w/o

A private Cessna 550 Citation II crashed on landing at the airstrip at Barra Grande, Marau, Brazil, killing one female occupant. It had left Jundiaí Airport earlier in the day with ten people on board. The reason for the mishap is unknown. According to an eyewitness the Citation circled in the air and then began to fall. "I was fishing and saw the plane passing over me. It made a very fast turn and then back to the runway. In a matter of seconds smoke started to rise."

14nov19 N400FS FJ-4B **224-83** dam

Around 16:00 hrs (local time, this 1958-built privately owned FJ-4B flew into Richfield (UT), together with an old MiG. The pilot of the Fury failed to extend his gear and belly-landed the plane. No one was injured. The same aircraft also made a belly landing in 2008. This is a YouTube clip of that 2008 event: /www.youtube.com/watch. The FJ-4B is former BuNo 143575/TR-44, but at the time of the mishap was registered as N400FS. The aircraft is a familiar visitor of air shows in the States and will be repaired.

14nov19 NAF57. A109LUH dam

A Nigerian Air Force A109LUH (of 305 Flying Training School) crashed during landing in Enugu state, after a routine flight. Fortunately, there were no fatalities or injuries to any crew member or persons on the ground. 305FTS has five A109LUHs on strength.

14nov19 602 Mi-8MTV-1 **96157** dam

The Fuerza Aérea del Perú Mi-8 received damage after it hit a bird upon landing at El Valor airfield, El Milagro district, Utcubamba, Peru. At the moment the Peruvian Air Force only has one squadron equipped with the Mi-8/17, which is Grupo Aéreo N°3 and Escuadrón de Helicópteros 341 in particular.

15nov19 N777HW Ce560 **560-0706** dam

15nov19 N973CG Ce525B **525B-0391** dam

That's quite some feat here! Cessna CitationJet CJ3 (N973CG) of Pilot Point Consultancy collided with Cessna 560 Citation Encore (N777HW) of ETG Aviation, with the latter parked on the tarmac at San Antonio International Airport (TX) for unknown reasons, shortly after the CJ3 arrived. Luckily nobody got injured but both Citations received damage. Here's a short YouTube video of the situation: <https://www.youtube.com/watch?v=NK2F2fFmU4>

16nov19 IN... MiG-29KUB w/o

At 11:45 hours local time, an Indian Navy Naval Air Squadron INAS303 'Black Panthers' MiG-29KUB crashed in the vicinity of Goa town. Both pilots ejected safely. The aircraft suffered an engine fire during a training mission. It is reported that the MiG hit some birds after take-off from INS Hansa (Goa-Dabolim).

17nov19 Mi-8/17 w/o

The Syrian Arab Air Force lost a Mi-8 or Mi-17 (to be determined) after it crashed upon take-off from Hama airbase, under unknown circumstances. Sadly all occupants died in the crash, with some reports speaking of four fatalities and others of three.

17nov19 SE-LUX Be95-B55 **TC-1269** dam

A Beechcraft Baron of South Sweden Flight Academy performed a forced landing without the use of landing gear at Malmö-Sturup Airport, Sweden, after it experienced some kind of issue in the air. Air traffic control reported they lost radio and radar contact while the aircraft was airborne. Sturup Tower got visual contact with the aircraft as they were coming in for landing. They could not reach them by radio. Onboard were a student and an instructor, both were unharmed. According to the IFR flight plan that was filed, the aircraft had planned to proceed to the TIDVU holding for thirty minutes for air work and then back to Malmö for ILS approaches. Flight time reported in the flight plan was 1.5

hours. Fuel onboard was reported as 3 hours and 17 minutes. The airport closed right after the accident and remains closed as of 18:50 UTC.

20nov19 AH-64D w/o

Two American service members have died after their US Army Apache crashed in Afghanistan, at Pangram village, Charkh district, Logar province, adding that enemy fire was not to blame. The incident happened in the war-ravaged country, according to a statement from the US-led Resolute Support operation's command. The AH-64 came down because of a technical malfunction, apparently its rotors clipped a mountain ridge.

20nov19 MQ-9A w/o

61° Gruppo, part of 32° Stormo 'Armando Boetto' of the Aeronautica Militare, lost one of its Reapers after it crashed in Libya, at Tarhuana. LNA forces claim to have shot down the aircraft near Tripoli. 61° Gruppo is based at Sigonella and also has the MQ-1C in its inventory.

21nov19 TC-AEH G150 **284** dam

Nose gear damage incident at Odessa (Ukraine) number one. This Tahe Havacilik G150 suffered substantial damage to the nose landing gear on landing at Odessa-Central Airport's runway 16. The nose gear bogey broke away and the aircraft came to a stop on the runway.

21nov19 TC-JGZ B737-8F2 **35739** dam

Nose gear incident at Odessa number two...

Turkish Airlines flight TK467 suffered a runway excursion after landing at Odessa, Ukraine. At 20:29 hours local time the Boeing approached runway 16, but the landing was aborted and the crew executed a go-around. They then took up a hold and eventually positioned for another landing, touching down at 20:55. Unfortunately the touchdown was not the best and the aircraft suffered a runway excursion after a nose gear collapse, and ended up halfway in the grass. Weather at the time was a nice crosswind from the left in snow conditions with braking action reported as good. Onboard were 134 passengers, number of crew unknown but likely six or seven.

The following day Ukraine's NBAAI reported that after landing on runway 16 the Boeing rolled off the runway. When attempting to return onto the runway the nose gear collapsed and the aircraft stopped at the left edge of the runway with the right main gear remaining on the runway surface and the left main gear outside of the runway.

21nov19 T-38C w/o

21nov19 T-38C w/o

Two pilots were killed when their USAF T-38C Talons crashed at Vance AFB (OK). Video shot by Oklahoma City's KOCO News shows one T-38 flipped over a few hundred feet off of a runway with markings in the ground that indicate its path from the runway. A second T-38 was resting upright several hundred feet from the flipped jet and just off the runway, according to the video footage. Unconfirmed reports mention that the aircraft performed a formation take-off when things went terribly wrong. One of the aircraft went off the runway and rolled over. This is the aircraft in which both pilots got killed. The aircraft which is still upright shows damage to the right wing, it's not clear if this was caused by a collision on the runway or if this damage was caused by the fact it went off the runway.

21nov19 UH-1H w/o

The Fuerza Aérea Paraguaya lost one of its Escuadrilla Dragones Hueys, part Grupo Aéreo de Helicópteros. It crashed under unknown circumstances at Pedro Juan Caballero and was consumed by fire. There were no fatalities among the eleven occupants although some of them were injured.

Credits: ASN, AINonline, Leo Hoogerbrugge, Aviation Herald, B3A, Sydney Morning Herald

# Military News & Updates



Hans Antonissen was able to make this rather spectacular air-to-air shot of Mig-29AS 0619 of Taktické krídl of the Slovak Air Force during the arrival day at the Ostrava NATO days. (20 September 2019)

Because of our standardization we sometimes use type, unit and serial presentations that may strongly differ from those used by the manufacturer or user. It is therefore possible that the information sent by you can deviate from the information we publish.

## Europe

### the Netherlands

Koninklijke Luchtmacht (AF)

#### F-35A

F-009 DMO ex FACO Cameri **AN-09** 31oct19

The Defensie Materieel Organisatie (Defense Material Organisation) took charge of the first combat coded Lightning II after it landed at its new home base Leeuwarden. By the end of November it should start making the first flights from there. F-010, the next one, is expected in December.

### Denmark

Flyvevåbnet (AF)

On 24 October 2019, the Danish parliament approved a proposal to provide support to the United Nations mission in Mali (MINUSMA). For this, Denmark will send one C-130J-30 Super Hercules transport aircraft and two EH101 Mk512 Merlin tactical transport helicopters to Mali.

As from mid November 2019, a RDAF C-130J-30 Hercules will be transporting personnel and material across MINUSMA's area of operation in Mali for a period of six months. The two Merlin helicopters, including 70 personnel, will deploy for a period of twelve months from the end of 2019. These will support the French-led Operation Barkhane by transporting personnel and material in the area of operations (Burkina Faso, Chad, Mali, Mauretania and Niger). Noted at El Centro NAF (CA) in late September 2019 was a single EH101 Mk512 (serial M-519) practicing day and night desert operations. This was in preparation for the upcoming deployment.

### Finland

Ilmavoimat (AF)

Finland starts HX challenge in January 2020. The HX Fighter Replacement Programme (HX-FRP, HX stands for Hornet

replacement with candidate X aircraft) will enter the next phase, called HX Challenge, where the respective manufacturers will bring their test aircraft to the Finnish air base Tampere/Pirkkala. Each manufacturer gets five days to perform all required test scenarios.

The test period for the respective manufacturers are defined as follows:

09-01/17-01-2020: Eurofighter Typhoon

20-01/28-01-2020: Dassault Rafale

29-01/06-02-2020: Saab 39 Gripen NG

07-02/17-02-2020: F-35A Lightning II

18-02/26-02-2020: F/A-18 Super Hornet

The aim of the HX Fighter Replacement Programme is to replace the fleet of Finnish Air Force F-18C/D Hornet fighter aircraft. The planned service life of the Hornets will end by 2030. The aircraft were commissioned between 1995 and 2000. Requests for information were sent out during the government term 2015-2019.

The multi-role fighter aircraft on which responses were received were Boeing F/A-18 Super Hornet, Dassault Rafale, Eurofighter Typhoon, Lockheed-Martin F-35 Lightning II and Saab 39 Gripen NG. In the second half of 2019, a more detailed call for tenders was sent to the respective manufacturers. The second phase of negotiations will end in 2020, when manufacturers will be asked for final offers. The Government will make a decision on the successor to the Hornet in 2021.

#### F-18C

HN-423	HävLLv 31	full H11 mks	<b>1419/FNC023</b>	oct19
HN-447	HävLLv 31	ex HävLLv 11	<b>1473/FNC047</b>	jun19

### France

With the delivery of the first A330MRTTs the 31e Escadre Aérienne de Ravitaillement et de Transport Stratégiques (31EARTS) at Istres has rearranged its squadrons. On 4 October GRV02.091 Bretagne has become ERVTS01.031 Bretagne. ERVTS stands for Escadron de Ravitaillement en Vol et de Transport Stratégique, indicating that it is a tanker and transport unit. ERVTS01.031 will be flying the A330MRTTs. Established on the same day was ERV04.031 Sologne, This tanker squadron will be flying with the KC-135/C-135FRs.

When the A310s and sole A330-223 are phased out and more A330MRTTs have been delivered another squadron will be based at Istres, this will be ERVTS02.031 Esterel. This squadron is currently flying as ET03.060 Esterel with the A310s and A330-223. ERVTS02.031 will be established in the 2021-2023 timeframe.

The 33rd Escadre de Surveillance, de Reconnaissance et d'Attaque (33ESRA) at Cognac will also get two new squadron. The current unit flying the military drones is ED01.033 Belfort (Escadron Drone). With delivery of more MQ-9 Reapers ED02.033 Savoie will be established in 2020. This is a former Mirage F1CR unit. When, in a few years time, the ordered Beech 350ALSRs will be delivered they are expected to go to Escadron 04.033. Also based at Cognac is Escadron de Transformation Opérationnelle de Drone 03.033 Moselle, a drone trainings unit.

It was already known that with the delivery of the PC-21s the Alpha Jets of EAC00.314 at Tours will be phased out. The most recent plans, named project MENTOR, indicate that also the trainings role of the Alpha Jet at Cazaux will come to an end. This in favour of eight more PC-21s. The newbie pilots will go straight from the PC-21 to the Rafale/Mirage, the same concept as with the Swiss (PC-21 versus F-18). This plan is cost-driven, a flying hour of an Alpha Jet is five times higher than a PC-21.

The French government has announced that it is planning to order three E-2D Hawkeyes. When ordered the aircraft will be delivered around 2026-2028 and replace the current fleet of three E-2C of 4F.

#### Armée de l'Air (AF)

LFDLT = Tarbes Ossun

#### A310-304

421/F-RADA std LFDLT ex ET03.060 **421** aug19

#### Alpha Jet E

E104/8-TG	nb	ex 705-TG	jun19
E131/8-RO	nn	ex 120-RO	jun19
E147/8-LT	nb	ex 120-LT	jun19
E173/705-MA	EAC00.314	ex 8-MA	aug19
E38/8-LH	nn	ex 120-LH	jun19

#### KC-130J

5874/61-PQ ET02.061 d/d 19sep19 **5874** sep19

The second KC-130J will be delivered in 2020.

#### C-135FR

739/31-CK GRV02.091 ex 93-CK **18699** sep19

#### SA330B

1306/AE ET00.052 ex EH03.067 **1306** 19

## Italy

BRAC = Bracciano (RM)

LIPL = Ghedi (BS)

#### Aeronautica Militare (AF)

On the occasion of the course of aeronautical culture carried out at Thiene airport (Aero Club "Arturo Ferrarin") near Vicenza in the north east of Italy, five SIAI-Marchetti S208M from the 423<sup>a</sup> Squadriglia of the Aeronautica Militare received a special livery. Thiene is the Arturo Ferrarin's birthplace, a world-famous Italian aviator known for its outstanding records. The first he took as a Lieutenant with colleague Tenente Guido Masiero, was a flight Roma (Guidonia) to Tokyo, covering 18.000 km on 109 flight hours with many stops from 14 February to 31 May 1920. Both were flying two seat Ansaldo SVA9 biplanes, in which they carried also their personal engineers. Later on, in 1928 together with capitano Carlo Del Prete, Arturo Ferrarin made a non-stop flight of 7666 km from Roma-Guidonia to Touros, Brazil, on 58 hrs 37 mins on single engine Savoia Marchetti S.64. On 18 July 1941, he lost his life on a test flight at Roma-Guidonia. In this special livery, pilot Lieutenant Arturo Ferrarin is represented. The colourful tails were designed by the Basso Design studio and by arts society RTHM (Roma Tokyo Hangar Museum). The special tails will continue to be flown into 2020. The S208Ms involved are MM61937/60-24, MM61974/60-27, MM62002/60-40, MM62007/60-43 and MM61934/-.

#### Tornado IDS MLU

MM7026/6-35 pres LIPL ex 6-35/6° GEA **267** mar19

Aviazione dell'Esercito (AR)

#### AB205A-1

MM80535/E.I.283 1° Rgt di Sost. ex 26° Gruppo **4132** oct19

#### AB206C-1

MM80863/E.I.595 1° Rgt di Sost. ex 1° Gruppo **9094** oct19

MM80905/E.I.637 1° Rgt di Sost. ex std BRAC **9159** oct19

#### AB412

MM81257/E.I.457 std BRAC ex 1° Gruppo **25565** jul19

MM81258/E.I.458 21° Gruppo ex 26° Gruppo **25566** jul18

MM81355/E.I.464 1° Rgt di Sost. ex 26° Gruppo **25579** oct19

Marina Militare (NY)

#### EH101-110ASW/ASuW

MM81487/2-08 Grupelicot 1? w/o 06nov19 **50039**

Arma dei Carabinieri (PO)

#### AW139M

CSX81968/CC-01 Leonardo new **31880** nov19

Guardia di Finanza (PO)



The first Multi-Role Tanker Transport Force (MMF) Airbus A330-243MRTT EC-340, the future KC-30M T-054, seen during a training flight at Getafe on 8 November 2019. It is slated to be delivered on 1 May 2020 to Eindhoven Air Base. (José Ramón Valero)



The forthcoming 100th anniversary of the flight from Roma (Guidonia) to Tokyo in 1920 by Arturo Ferrarin resulted in a special tail worn on five S208Ms of the Aeronautica Militare. Pictured is S208M MM62007/60-43 on the grass of Thiene Airport. (22 October 2019, Daniele Mattiuzzo)

#### AW139M

MM81961/413	SA Bari	new	<b>31868</b>	oct19
CSX81964/414	Leonardo	new	<b>31874</b>	oct19

On 12 November 2019, Leonardo delivered the first of 22 latest-generation AW169M light intermediate twin-engined helicopters to Italy's Guardia di Finanza. The handover event was held at Leonardo's Vergiate plant near Varese in northern Italy. The AW169M, serial MM81692 and code 501, was wearing the new colour scheme. This particular AW169M was no newcomer to aircraft spotters, since it was already displayed at the static of Air Power 2019 at Zeltweg in Austria in September 2019. The initial delivery is linked to a contract for 22 AW169Ms worth euro 280 million, signed at the end of 2018. The contract includes a complete support and training package that could be extended for further services with an additional value of euro 100 million in the future. The AW169Ms will be used for various tasks, including maritime police/patrol, homeland customs security, law enforcement, rescue and other security duties. The delivery of all aircraft is expected to be completed by 2024, complementing a fleet of fourteen AW139 intermediate twin helicopters with the Guardia di Finanza.

#### ATR72-212A

CSX62311/20	Leonardo	ex F-WWEU	<b>1425</b>	sep19
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On 13 November 2019, a brand-new Guardia di Finanza ATR72-600MP was noted at Torino-Caselle (TO). The aircraft with test serial CSX62311 was noted in a striking new black colour scheme. The code was presented as 20 and not as GF-20.

### Malta

Armed Forces of Malta (AF)

#### SA316B

A-247	std LMML	ex KLu A-247	<b>1247</b>	sep19
A-292	std LMML	ex KLu A-292	<b>1292</b>	sep19

Both former Koninklijke Luchtmacht Alouette 3 helicopters, completed with main rotor blades and engines, were transported by the container vessel APL Raffles to Malta. They were still in the dark blue colour scheme complete with Dutch markings and registrations used by the Dutch Royal Flight/VIP Flight. They will probably be used for spare parts.

### Norway

Norske Luftforsvaret (AF)

On 6 November 2019, Royal Norwegian Air Force (RNORAF) F-35A Lightning IIs reached the Initial Operating Capability

(IOC) status after completing a deployment meant to validate that they are able to operate the fighters away from Norway's home base, Ørland Main Air Station (MAS). Air chief Major General Tonje Skinnarland officially declared Norway's F-35As operational. In Europe, Norway is the third F-35 user to declare IOC, after the United Kingdom and Italy.

The first three F-35As landed on Norwegian soil in November 2017. So, in a period of two years, RNORAF has conducted intensive operational testing and evaluation (OT&E) in specific Norwegian conditions, such as winter operations, operations in the northern areas and cooperation with the Norwegian Army, Navy and Special Forces. During the final test period the air force spent several days transferring aircraft and equipment from Ørland to Rygge Air Station.

In 2020, Norway will deploy F-35As to Iceland to conduct air policing efforts on behalf of NATO. By 2022, RNORAF will have built up enough F-35s, pilots and maintainers in the country to let the aircraft take over the 'quick reaction alert' mission, which calls for operators to stand on a 24/7 alert, if needed, scramble to intercept aircraft flying near Norwegian airspace. For this, F-35s will be ready for air policing in Evenes, Northern Norway.

At this moment the Scramble database shows fifteen F-35A Lightning IIs operational with 332 skv at Ørland MAS. Another seven aircraft are operated by 62nd Fighter Squadron/56th Fighter Wing at Luke AFB (AZ) for training new pilots.

#### 332 skv at Ørland Main Air Station:

5148, 5149, 5150, 5205, 5206, 5207, 5208, 5209, 5210, 5288, 5289, 5290, 5291, 5292 and 5293

#### 62nd FS/56th FW at Luke AFB (AZ):

5087, 5088, 5110, 5111, 5145, 5146 and 5147

#### F-16AM

680	331 skv	ex FLO	<b>6K-52</b>	nov19
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### Portugal

In November 2019, the Portuguese government made the decision to construct a second civil airport for Lisbon at the site of Montijo Airbase. The intended OrBat changes reported in Scramble 485 appear to relate to this development. Adding to this the current plans seem to be as follows. During spring 2020, the Epsilons of Esq101 will move from Sintra to Beja. Esq802 will remain at Sintra with its Chipmunks and gliders. Also in 2020, Esq552 will move from Beja to Sintra, bringing their AW119Kx helicopters while the remaining Alouettes

will be withdrawn from use. The intended move of Esq751 from Montijo to Sintra will follow later as infrastructural work needs to be done at Sintra to receive the Merlin helicopters. Plans to create an international pilot training school at Sintra are being considered. Newly reported future OrBat changes include the transfer of Esq502 with their C295M transport aircraft from Montijo to Beja while Esq504 will move its Falcon 50s from Lisbon Airport to Montijo. Apparently, Esq501 will remain at Montijo with their Hercules and future KC-390 heavy transports.

LPBJ = Beja  
LPMT = Montijo  
LPST = Sintra

Força Aérea Portuguesa (AF)

#### Alpha Jet A

15202 pres LPST ex std LPBJ **0006** nov19  
The Alpha Jet is now preserved with the Academy on Sintra Airbase, not with the Museum.

#### AW119Kx

29703 Esq552 d/d 03oct19 oct19

#### CASA 212-100

16504 std LPMT for Cape Verde **18**  
16509 std LPMT for Cape Verde **32**

The six Aviocars stored at Montijo Airbase were all bought by the company Sevenair. The two above will move to Cape Verde in exchange for Coast Cuard Do228-212 D4-CBK. The other four (16505, 16512, 16513 and 16517) will be used by parachute schools. All six were still at Montijo in November 2019 with work being done on the two for Cape Verde.

#### EH101 Mk516

19612 std LPMT ex Esq751 **50158** jan19  
First reported as such in January 2019, the Merlin was confirmed stored with unit in November.

#### TB-30

11416 std LPBJ ex Esq101 **173** nov19  
This Epsilon sporting a special colour scheme commemorating '80000 hours on TB-30' was reported as stored at Beja.

### Spain

LEAB = Albacete

#### A400M

TK.23-05/31-25 Ala 31 #10206, d/d sep19 **097** oct19

#### AS332B

HD.21-08/801-08 Airbus LEAB ex 802 Esc/uncoded **2065** nov19

#### C295M

T.21-09/35-09 353 Esc ex 35-47 **017** oct19

#### CASA 101EB

E.25-20/79-20 AGA w/o 26aug19 **020**

#### CASA 212-100

T.12B-63/72-63 721 Esc ex 72-14 **122** oct19

T.12B-71/72-71 721 Esc ex 72-10 **147** oct19

#### EF2000

C.16-21/11-21 Ala 11 ex 11-01 **SS001** oct19

#### Falcon 20D

TM.11-3/472-03 472 Esc ex 47-23 **219/470** oct19

#### T-35C

E.26-05/79-52 791 Esc w/o 18sep19 **123**

Ejército del Aire (AF)

#### Tiger HAD

HA.28-19/ET-719 BHELA I #10068 **5014/HADE14** oct19

HA.28-22/ET-722 BHELA I #10071 **5017/HADE17** oct19

Both first reported operational after delivery.

Guardia Civil (PO)

#### Beech 300 King Air

U.23-01/09-601 Guardia Civil #10224, o/o

### United Kingdom

Royal Air Force (AF)

The Tucano T1 was officially withdrawn from use by the RAF on 31 October 2019. About a week earlier, on 25 October 2019, a nine-ship formation was put up by 72sq at RAF Linton-on-Ouse to mark this event. The following aircraft participated: ZF135/135, ZF139/139, ZF140/140, ZF142/142, ZF171/171, ZF269/269, ZF317/317, ZF342/342 and ZF343/343. A tenth Tucano acted as air-spare and photo-ship: ZF348/348. With the Tucano retired, the Texan T1 will take over the training role at RAF Valley. In the near future, 72sq will officially move to RAF Valley where it will continue its previous role.

The first RAF Poseidon MRA1 was officially taken on charge on 30 October 2019. The aircraft was flown to NAS Jacksonville (FL) where 120 squadron will use it for aircrew training purposes before re-locating to RAF Lossiemouth next year.

The Northern Ireland Universities Air Squadron (NIUAS)



AMX ACOL MM7194 of GEA 51° Stormo has adopted a special 'AMX 30th Anniversary' livery. (Ostrava, 20 September 2019, Markus Schrader)



D-HADL is the test registration for the new Airbus Helicopters H145M 77+07 (construction number 20274). Dietmar Fenners saw the new Search and Rescue helicopter during training at Manching, Germany. (7 November 2019)

seems to be nearing operational status by end-September 2019. A pair of Tutor T1 aircraft arrived at JHC Aldergrove on 26 September 2019. Four days later they commenced flight operations which lasted until mid-October 2019. They were used for familiarization purposes and to allow flying experience to the North Ireland cadets. The two aircraft involved were G-BYWI and G-BYWS, which departed back to RAF Cranwell on 15 and 16 October 2019 respectively.

EGDM = Boscombe Down      EGOS = Shawbury  
EGKB = Biggin Hill          EQQS = Lossiemouth

Benson Pool      33/230sq at RAF Benson  
Boeing            Boeing Aircraft Co at Seattle (WA)  
CMF                Chinook Maintenance Unit at RAF Odiham  
Leonardo        Leonardo Helicopters at Yeovil  
P2MF              Puma HC2 Maintenance Flight at RAF Benson  
StandardAero    StandardAero at Fleetlands  
TMU                Typhoon Maintenance Unit at RAF Coningsby

#### Chinook HC5

ZH900            18(B)sq            ex 27sq            **M4479** sep19  
ZH903            18(B)sq            ex 27sq            **M4482** sep19

#### Chinook HC6

ZK554            7sq                ex CMF            **M7705** sep19

#### Chinook HC6A

ZA682            27sq                ex StandardAero    **M7008** sep19  
ZA720            CMF                ex 27sq            **M7020** sep19  
ZH892            18(B)sq            ex CMF            **M4455** sep19  
ZH893            28sq                ex 27sq            **M4456** sep19  
ZH894            27sq                ex CMF            **M4457** sep19

#### Hawk T1/T1A/T1W

XX158, XX167, XX170, XX176, XX178, XX199, XX218, XX283, XX287 and XX315 have all been officially struck off charge. These aircraft were already stored at RAF Shawbury for a long time as part of the sustainment fleet. They are now declassified as non-effective.

#### Hurricane IIc

PZ865            o/h Biggin Hill    ex BoBMF/EG-S      sep19

#### Phenom 100

ZM336            45sq                ex repairs            **50000384** sep19  
Inflight at London-Stansted completed the repair work on ZM336, and it was delivered back to the care of 45sq at RAF Cranwell on 25 September 2019.

#### Poseidon MRA1

ZP801/01        120sq                ex Boeing            **64175/7532** oct19

#### Puma HC2

XW212            P2MF                ex Benson Pool      **1111** aug19  
ZA936            Benson Pool        ex P2MF              **1640** sep19

Three Puma HC1 helicopters are currently temporary stored under the care of P2MF at RAF Benson. The helicopters involved are: XW199 (since 03aug18), ZA935 (since jul17) and ZA939 (since nov18).

#### Spitfire IIa

P7350/KL-B      BoBMF                ex o/h EGKB        **CBAF/14** jul19  
After a lengthy overhaul at Biggin Hill, this Spitfire returned to RAF Coningsby wearing 54sq markings on 25 July 2019. Not long before that, on 11 July 2019 to be exact, Spitfire TE311 departed to Biggin Hill to undergo servicing.

#### Typhoon FGR4

ZJ914            TMU                ex 29sq/914        **BS005** sep19  
ZJ919/919        6sq                ex IX(B)sq/919     **BS010** aug19  
ZJ939            TMU                ex 29sq/939        **BS032** sep19  
ZJ946            TMU                ex 6sq/946        **BS039** aug19  
ZJ950/950        6sq                unit confirmed     **BS047** aug19  
ZK300/300        29sq                ex TMU              **BS052** sep19  
ZK301/301        6sq                ex 1(F)sq/301      **BS053** sep19  
ZK310/310        IX(B)sq            ex II(AC)sq/310    **BS063** sep19  
ZK311/311        1(F)sq            ex XI(F)sq/311     **BS064** sep19  
ZK315/315        41(TEs)sq        ex XI(F)sq/315     **BS074** sep19  
ZK320/320        II(AC)sq            ex 1(F)sq/320      **BS081** aug19  
ZK321/321        6sq                ex II(AC)sq/321    **BS082** aug19  
ZK324/324        IX(B)sq            ex 6sq/324        **BS085** sep19  
ZK325/325        6sq                ex 1(F)sq/325      **BS086** sep19  
ZK328            TMU                ex 6sq/328        **BS089** sep19  
ZK332/332        6sq                ex 1(F)sq/332      **BS093** aug19  
ZK338/338        II(AC)sq            ex 1(F)sq/338      **BS099** sep19  
ZK341/341        II(AC)sq            ex 1(F)sq/341      **BS102** aug19  
ZK345/345        3(F)sq            ex 1(F)sq/345      **BS106** sep19  
ZK346/346        TMU                ex 3(F)sq/346      **BS107** sep19  
ZK349/349        II(AC)sq            unit confirmed     **BS110** sep19  
ZK352/352        1(F)sq            ex II(AC)sq/352    **BS113** sep19  
ZK353/353        IX(B)sq            ex 6sq/353        **BS114** sep19  
ZK360/360        Coningsby        ex 6sq/360        **BS121** sep19  
ZK366/366        12(B)sq            ex XI(F)sq/366     **BS127** sep19  
ZK373/373        12(B)sq            ex 29sq/373        **BS134** sep19  
ZK436/436        12(B)sq            ex 29sq/436        **BS152** sep19

Six Typhoons were deployed to the Middle and Far East, where they were used by different squadrons. The aircraft involved were: ZK307/307, ZK329/329, ZK358/358, ZK359/359, ZK431/431 and ZK435/435.

3(F)sq deployed the aircraft from RAF Coningsby to Thum-

rait (Oman) for Exercise Magic Carpet, leaving the UK on 2 September 2019

II(AC)sq took the aircraft from Thumrait (Oman) to Butterworth (Malaysia) for Exercise Bersama, departing Oman in two waves of three aircraft each on 23 and 24 September 2019.

XI(F)sq took over responsibility of the aircraft at Butterworth (Malaysia) and ferried them to Al Dhafra (UAE) for Exercise ATLC on 21 October 2019 (two aircraft) and 22 October 2019 (four aircraft).

#### Voyager KC3

ZZ332	1312Flt	ex 10/101sq	<b>1275</b>	sep19
ZZ334	10/101sq	ex 1312Flt	<b>1033</b>	sep19

Army Air Corps (AR)

#### Apache AH1

ZJ221	662sq	ex ADSU	<b>WAH55</b>	sep19
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#### Gazelle AH1

ZA772	StandardAero	ex 665sq	<b>1814</b>	sep19
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#### Wildcat AH1

ZZ409	1Regt	ex Leonardo	<b>479</b>	sep19
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Fleet Air Arm (NY)

#### Merlin HM2

ZH861/(5)85	QinetiQ	ex 824NAS/(5)85	<b>RN41</b>	sep19
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## Asia

### Afghanistan

Afghan Air Force (AF)

Of the six additional A29Bs ordered in 2017 and started delivery in April 2018 to 81st FS/14th FTW at Moody AFB (GA), we still miss 17-2029. Around this year's air show at Moody in November 2019, three aircraft were identified including their construction number. 17-2030 and 17-2032 were noted

at Valdosta Regional Apt (GA), whilst 17-2031 was at the static at Moody. Their future Afghan serials were taped over, with 17-2032 only showing 1945.

#### A-29B

17-2030	81st FS	f/n (YA1943)	<b>31400243</b>	nov19
17-2031	81st FS	f/n (YA1944)	<b>31400244</b>	nov19
17-2032	81st FS	f/n ((YA)1945)	<b>31400245</b>	nov19

### Bangladesh

Bangladesh Biman Bahini (AF)

VGJR = Jessore/Matiur Rahman AB

VG TJ = Dhaka-Tejgaon/Bashar AB

#### A-5C (A-5 IIIA)

910	pres VGJR	ex std VGJR		nov19
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The ones preserved at Jessore are in the newly erected Bangladesh Air Force Museum, situated in a piece of land that was being landscaped this June along the Southwest base fence, N23.17227°, E89.16406°. Most of these aircraft used to be stored or preserved on base, and had to make room for a new terminal and AF Academy buildings.

#### CM170

070	pres VGJR	ex pres BAF Academy	<b>D70</b>	nov19
620	pres VGJR	ex nn, green c/s		nov19

#### F-6

1014	pres VGJR	ex derelict VGJR		nov19
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#### K-8W

19330	AVIC/HAIG	f/n Nanchang-Yaohu		nov19
19335	AVIC/HAIG	f/n Nanchang-Yaohu		oct19

Two more new ones for Bangladesh. The first one was at the static of the Nanchang Flight Conference, held 2-3 November 2019.

#### Mi-171Sh

7670	active VG TJ	del, f/n sep19	<b>7670U</b>	oct19
7681	active VG TJ	del	<b>7681U</b>	nov19

We reported two that were seen at Ulan Ude before, **7669** and



The rather non-standard colours on this L-39NG (0475) indicate it still belongs to manufacturer Aero Vodochody. (Ostrava, 20 September 2019, Markus Schrader)



Bell 412EP H-4215 of the Tentara Nasional Indonesia-Angkatan Darat (TNI-AD), seen at Tangerang/Pondok Cabe Airport in south Jakarta, Indonesia. (1 October 2019, Ad Jan Altevoigt)

**7681.** Now deliveries are taking place. Three were delivered in August, with two more due early 2020 at the latest.

PT-6				
2705	11sq	f/n dbase		dec17
3412	pres VGJR	ex 11sq, l/n jun15		oct19
3512	pres VGJR	ex 11sq, l/n nov98		nov19
3517	pres VGJR	ex 11sq, l/n dec16		jun19
3801	pres VGJR	ex 11sq, l/n may00		aug19

There are six in the museum, one of them looks like 4103.

T-37B				
63554	pres VGJR	ex pr Parade Ground	<b>40126</b>	nov19
63570	pres VGJR	ex pres ramp VGJR	<b>40142</b>	nov19
81879	pres VGJR	ex pr Parade Grounde	<b>40304</b>	sep19

## China

People's Liberation Army Air Force (AF)

<b>CJ-6A</b>				
4873/83	AU FITB/3th Reg			oct19
<b>H-6K</b>				
20214	10th Div/28th Reg			nov19
<b>II-76</b>				
21146	13th Div/39th Reg			oct19
<b>J-8F</b>				
72200	109th Brigade		<b>J8F-0106</b>	oct19
<b>J-10A</b>				
06	Ba Yi		<b>J10A0718</b>	oct19
<b>J-10C</b>				
74524	131st Brigade			nov19
74620	131st Brigade			nov19
<b>J-10S</b>				
...			<b>J10S0335</b>	mar19
...			<b>J10S0401</b>	mar19
...			<b>J10S0402</b>	mar19
<b>J-11B</b>				
70105	89th Brigade		<b>0214</b>	nov19
<b>J-11BG</b>				
61222	1st Brigade			nov19

Recent pictures indicate that the current version of the J-11B has been upgraded. Externally the version can be identified by its light grey radome and it is believed the upgrade mainly includes an upgrade of the radar in addition to an upgrade of the weapon package.

66361 55th Brigade nov19

### J-20

62002	9th Brigade			nov19
62005	9th Brigade			nov19
62007	9th Brigade			nov19
62008	9th Brigade			nov19

May 2018 this second Brigade started to receive the new J-20, with at least eight delivered so far.

### JL-8

01	Red Falcon Display Team		<b>0932035</b>	oct19
02	Red Falcon Display Team		<b>0932043</b>	oct19

### JL-9

1139	Harbin FA/3rd Brigade		<b>J0706</b>	oct19
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### JL-10A

2310/30	Shijiazhuang FA/1st Brigade			oct19
2312/32	Shijiazhuang FA/1st Brigade			oct19

### Y-8/Y-9 version

31013	20th Div/60th Reg			oct19
31018	20th Div/60th Reg			oct19

### Y-8G

30016	20th Div/58th Reg			oct19
30017	20th Div/58th Reg			oct19
30518	20th Div/59th Reg			nov19

The 58th Regiment aircraft above were noted without mentioning of the subtype.

### Y-20

11058/08	4th Div/12th Reg			oct19
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People's Liberation Army (AR)

### Z-8G

LH971870	76th Brigade			nov19
LH982850	121st Brigade			nov19

### Z-10

LH911122	Xinjiang Brigade			nov19
LH911131	Xinjiang Brigade			nov19
LH911176	Xinjiang Brigade			nov19

### Z-19

LH991530	71st Brigade			nov19
LH991556	71st Brigade			nov19
LH991568	71st Brigade			nov19

The LH991556 is equipped with a Mast Mounted Radar.

People's Liberation Army Navy (NY)

### Z-9D

9437	9th Div/26th Reg		<b>Z9-0735</b>	oct19
9487	9th Div/26th Reg			oct19

Manufacturers

**FTC-2000G**

-- GAC f/f 29oct19 proto #2

**J-10C**

4-31 bare metal **J10C0431** nov19

India

Indian Defence (DF)

The next level in India's CASA C295M transport aircraft deal has been reached. The Indian Defence Ministry has concluded the cost negotiations with Tata and Airbus for the purchase of the CASA C295M transport aircraft as part of the long-delayed BAe748 (Avro) replacement programme. The next step is to get the clearance from the Cabinet Committee on Security (CCS). This part is expected to be signed in the coming months.

In April 2019 it was reported that the aircraft deal itself is expected to be signed after a new Indian government assumes office following the general elections that were started on 11 April 2019. After the contract is signed with the Airbus/Tata Advanced Systems Ltd (TASL) consortium, it is expected that delivery of the first aircraft can start within 60 months of the contract being signed.

Some sources expressed optimism that the deal would be signed in this financial year, but this is contingent on the availability of funds. The Indian Air Force (IAF) has a situation where committed liabilities for this financial year are more than the capital allocation in the budget and few big ticket deals are on the agenda. For instance, the IAF recently concluded a deal for five additional Akash Surface-to-Air systems and a deal for 83 Light Combat Aircraft (LCA) is expected to be concluded in this financial year.

When going back in history we see that already on 13 May 2015 the Defence Acquisition Council (DAC) cleared the deal with the lone bid of the Airbus-Tata consortium (TASL) to replace the current fleet of BAe748 aircraft with 56 C295M transport aircraft. An additional six C295MPA Maritime Patrol Aircraft (Indian Coast Guard) were added to the acquisition. The programme is the first major 'Make in India' programme in the defence sector. Sixteen aircraft will be bought off-the-shelf and 46 will be manufactured in India at the new TASL facility near Bengaluru (State of Karnataka).

Bharatiya Vayu Sena (AF)

**An-32RE**

KA3073 unit nn ex K3073 **25 06** oct19

**C-130J-30**

KC3813 Lockheed Martin f/n nov19

**CH-47F(I)**

ZL4667 126HF ex Boeing Company **M2402** nov19  
ZL4673 126HF ex Boeing Company **M2408** nov19

**MiG-29UPG**

KBU731 unit nn f/n, ex KB731 **296052xxxx** oct19

**Su-30MKI-3**

SB412 unit nn f/n oct19

Indian Army Aviation Corps (AR)

**Dhruv**

IA1156 301 AA sq f/n may15

Bharatiya Nau Sena (NY)

**MiG-29KUB**

IN67. INAS303 w/o 16nov19

**P-8I**

IN328/ARK Boeing f/n, N490DS **64890/7757** oct19

Indonesia

Tentara Nasional Indonesia - Angkatan Udara (AF)

**AS202/18A3**

LM-2036 i/a Polinema ex SkaDik101, l/n mar13 **219** may19

Some Bravos were dispersed to schools. Polinema is a Politechnic at Kota Malang that received one of those this May.

**C-130H**

A-1315 SkU33 ex SkU32, l/n oct18 **4838** jun19

A-1323 SkU33 ex SkU32, l/n feb19 **4899** aug19

A-1332 SkU33 ex SkU32, l/n feb19 **4783** sep19

Normally we do not list squadron changes of foreign forces, but these are the first Hercules for Skadron Udara 33 that was inaugurated on 13 June at Sultan Hasanudin airport, Makassar.

**CN235-220M**

A-2307 SkU27 ex SkU2, l/n feb19 **N019** jun19

**CN235-220MPA**

AI-2317 SkU27 ex SkU5, l/n apr19 **N040** jun19

AI-2318 SkU27 ex SkU5, l/n may18 **N063** jun19

Same story, different venue. Skadron Udara 27 was thought to be slated for inception in 2020 but also received its new aircraft on 13 June. It is based at Biak-Manuhua airfield, Papua.

Tentara Nasional Indonesia - Angkatan Darat (AR)

Sekbang = Sekolah Penerbang

**NBell 412EP**

HA-5186 SkUAD12 existence confirmed



A-1313 and A-1304 are two rather weathered and derelict former Indonesian Air Force C-130Bs parked in a corner of Bandung, Husain Sastranegara International Airport, Indonesia. (4 October 2019, Fred Bronner)



HU-4207 is a rather new NB412HP of Skadron Udara (RON) 400 with home base Surabaya-Juanda, Indonesia. Ad Jan Altevogt made this picture of the navy helicopter at Denpasar, more commonly known as Bali. (13 October 2019)

### S300C

HL-4191	Sekbang	existence confirmed	mar14
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Tentara Nasional Indonesia - Angkatan Laut (NY)

We are indebted to Indonesia specialist Marco Pennings for pointing us to a useful lead to find out more tie-ups. The updates are listed below.

### AS565MBe

HS-4208	SkU400	ex HX-5608, tie-up conf	<b>7042</b>	jan19
HS-4209	SkU400	ex HX-5609, tie-up conf	<b>7043</b>	mar19
HS-4210	SkU400	ex HX-5610, tie-up conf	<b>7046</b>	oct19
HS-4211	SkU400	ex HX-5611, tie-up conf	<b>7047</b>	oct19

### Beech G36

T-2501	SkU200	ex L-211	oct19
T-2502	SkU200	ex L-212	oct19

### Beech G58

T-2601	SkU200	f/n, ex L-230	<b>TH-2449</b>	may19
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### NBell 412HP

HU-4204	SkU400	f/n apr19, ex HU-417	apr19
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### NBell 412S

HU-4201	SkU400	f/n jul19, ex HU-410	<b>NB34009</b>	oct19
HU-4203	SkU400	f/n, ex HU-415		jun19
HU-4205	SkU400	ex HU-418		mar19
HU-4206	SkU400	ex HU-419		may19
HU-4207	SkU400	ex HU-420		aug19

Mostly referred to as NBell 412, but HU-4204 was suffixed HP.

### NBo105CB

HE-4108	SkU400	ex NV-408	jul19	
HE-4109	SkU400	f/n, ex NV-409	jul19	
HE-4110	SkU400	f/n, ex NV-410	<b>S8-715/N117</b>	jul19
HE-4111	SkU400	ex NV-411	mar19	
HE-4112	SkU400	ex NV-412	dec18	
HE-4113	SkU400	ex NV-414	apr19	

Note that HE-4112 was also listed as ex NV-411, but we think that should be NV-412 instead.

### NC212-200M

U-6208	SkU600	ex U-618	<b>281/N86</b>	oct19
U-6211	SkU600	ex U-621		nov19
U-6212	SkU600	ex U-622		jul19

### NC212-200MPA

P-8201	SkU200	ex P-850	<b>409/N89</b>	feb19
P-8202	SkU200	ex P-851		jun19

### CN235-220MPA

P-8301	SkU800	ex P-860	<b>N060</b>	oct19
P-8302	SkU800	ex P-861	<b>N061</b>	sep19
P-8303	SkU800	ex P-862	<b>N062</b>	may19

### EC120B

HT-2202	SkU200	ex NV-425	dec18
HT-2203	SkU200	ex NV-426	<b>1337</b> aug19

### TB-10GT

T-2402	SkU200	ex L-207	apr19
T-2404	SkU200	ex L-209	feb19
T-2405	SkU200	ex L-210	apr19

### Japan

The Japanese MoD released its FY2020 budget request. Below are the aviation related items:

- Requesting money for the development of a Stand-off Electronic Warfare Aircraft for conducting communication jamming. The accompanying picture shows a heavily modified Kawasaki C-2.
- Procurement of three F-35As and related equipment. Establishment of the second F-35A squadron at Misawa (301 Hikotai).
- Procurement of six F-35Bs and related equipment.
- Upgrade of F-15s (number of aircraft not specified) and two F-2s.
- Procurement of four KC-46As and establishment of an Aerial Refuelling and Transport squadron.
- Procurement of eight UH-60J IIs.
- Procurement of three P-1s and life-extension for seven P-3Cs, one OP-3C and one EP-3.
- Procurement of seven SH-60Ks to replace seven SH-60Js and life-extension for three SH-60Ks and two SH-60Js.
- Refurbishment of three SH-60Ks to rescue specification.
- Establishment of an Unmanned Aerial Vehicle Unit to operate the RQ-4B Global Hawk.
- Refurbishment of the Izumo to enable F-35B operations.
- Start development of Future Fighter Aircraft with a possible international collaboration led by Japan.
- Procurement of three CH-47JAs for the JGSDF.
- Base improvements at Saga airport for supporting MV-22 Osprey operations.

Much of the above was already known, however the refurbishment of three SH-60Ks to enable rescue operations is unexpected. The JMSDF is slowly retiring its SAR UH-60J fleet and disbanding the dedicated SAR units, these duties taken over by the JASDF and JCG.

RJDM = Metabaru  
 RJNA = Nagoya/Komaki  
 RJTU = Utsunomiya  
 ADTW = Hiko Kaihatsu Jikk.  
 ATS = Kyoiku Kokutai  
 nmks = no unit number

RJFZ = Tsuiki  
 RJNG = Gifu  
 ARW = Koku Kyunandan  
 FTW = Hiko Kyoikudan

Nihon Koku-Jieitai (AF)

**C-1**  
 28-1002 o/h RJNG nb, ex 402 Hikotai **8002** nov19  
 Seen doing test-flights from Gifu.

**F-2A**  
 53-8532 6/8 Hikotai nb, ex IRAN **1032** nov19  
 63-8539 o/h RJNA nb, ex 3 Hikotai **1039** nov19  
 63-8540 6 Hikotai? nb, to RJFZ, ex ADTW **1040** nov19  
 93-8547 o/h RJNA nb, test, ex 6 Hikotai **1047** oct19  
 F-2A 540 was modified to carry the Sniper pod. 547's previous last-note was December 2017.

**F-2B**  
 33-8116 o/h RJNA nb, test, ex 21 Hikotai **3016** nov19  
 43-8125 6 Hikotai nb, ex IRAN **3025** nov19

**F-4EJ Kai**  
 57-8369 301 Hikotai probably retired **M069** may19  
 67-8390 301 Hikotai probably retired **M090** may19  
 87-8407 301 Hikotai probably retired **M107** aug19  
 07-8425 301 Hikotai probably retired **M125** mar19  
 07-8427 301 Hikotai probably retired **M127** may19  
 07-8428 ex 302 Hikotai White final year c/s **M128** sep19  
 17-8438 301 Hikotai probably retired **M138** may19  
 F-4EJ 428 is still present inside a hangar at Hyakuri. 301 Hikotai operated 18 different Phantoms during October and November.

**RF-4E Kai**  
 57-6913 ex 501 Hikotai blue camo, retired jul19 **4639** jul19  
 501 Hikotai operated nine different recce-Phantoms during October and November.

**F-15DJ**  
 92-8097 o/h RJNA nb, ex 203 Hikotai oct19

**F-15J**  
 32-8819 o/h RJNA nb, ex 303 Hikotai **019** nov19  
 32-8823 o/h RJNA nb, ex 203 Hikotai **023** nov19  
 62-8868 303/306/AGG nb, ex IRAN **068** nov19  
 92-8908 201 Hikotai ex 204 Hikotai **108** oct19  
 92-8913 o/h RJNA nb, ex 204 Hikotai **113** nov19  
 02-8921 201 Hikotai ex nb/IRAN **121** oct19

**F-35A**  
 99-8714 302 Hikotai ex MHI **AX-14** nov19

99-8715 302 Hikotai ex MHI **AX-15** nov19  
 99-8716 302 Hikotai ex MHI **AX-16** nov19  
 All three were delivered on 6 November 2019. For the moment, no new F-35As were noted leaving the Mitsubishi factory at Nagoya but we do not know if production already ended.

**UH-60J**  
 08-4590 ARW ex IRAN **2040** nov19

**T-4**  
 66-5603 ADTW special c/s **1003** nov19  
 26-5809 13 FTW ex 302 Hikotai **1209** oct19

At the Gifu open house, T-4 603 was seen re-painted in the orange/white/blue test colours of the original first two prototypes when the type was still known as XT-4. This was to celebrate the 50th anniversary of the Test Pilot Course. The original prototype colours for 603 were slightly different, orange/white/red. T-4 809 was seen stored on the ramp at Ashiya in standard grey colours.

**T-7**  
 36-5906 11 FTW ex ADTW **6** nov19  
 46-5911 o/h RJTU ex 12 FTW **11** sep19  
 46-5919 11 FTW ex IRAN **19** nov19  
 66-5934 12 FTW nb, ex IRAN, ex 11 FTW **34** nov19  
 66-5941 o/h RJTU nb, ex 12 FTW **41** nov19

**U-125A**  
 12-3028 o/h RJTU nb, test, standard c/s **258843** nov19  
 It used to be painted in the experimental (UH-60J) dark blue colours.

Rikujo Jieitai (AR)  
 The JGSDF is planning to resume AH-64DJP operations. All flights were suspended after the crash of 74502 on 5 February 2018. Before starting-up Apache operations, high-ranking officials will visit government offices of all three prefectures with bases operating the AH-64DJP (Saga for Metabaru, Mie for Akeno and Ibaraki for Kasumigaura) to explain measures taken to prevent another mishap.

A number of Cobras from other units are temporarily based at Metabaru to counter the effect of the Apache grounding.

With the eminent retirement of the OH-6D, the JGSDF seems to fall short on its observation helicopters. The successor for the OH-6D, the Kawasaki OH-1, is very slowly returning to operational status, after the grounding following a crash. However only the Homen Herikopotutais and Taisensha Herikopotutais were provided with the OH-1. It looks like the Hikotais under direct command of a Division or Brigade are



Fokker F-27-100 of 221th AS of the Philippine Air Force looks good after a recent paint job by Merpati Maintenance Facilities (MMF). MMF is located at the north-east side of Surabaya Airport, Indonesia. At that location some thirty aircraft are parked and two Fokker Friendship simulators of the training centre. (8 October 2019, Ad Jan Altevogt)



Jonathan Verschuuren captured this F-16V of the Republic of China Air Force during a test flight at Taichung, Taiwan. The Aerospace Industrial Development Corporation (AIDC) is finally busy again with the upgrade of many F-16As. The so-called Phoenix Rising program had been seriously delayed, mainly due lack of skilled manpower. On this 6701 the various yellow bits still must be painted and show the external new structure and parts that have been replaced during the upgrade. (8 November 2019)

receiving additional UH-1Js to replace their OH-6Ds.

#### AH-1S

73441/41	IATH	TDY Akeno Koku Gakko	<b>41</b>	nov19
73465/65	IIIATH	TDY Akeno Koku Gakko	<b>65</b>	nov19
73471	IIATH	o/h RJTU	<b>71</b>	sep19
73482	IATH	ex TDY Akeno	<b>82</b>	nov19

#### OH-1

32601	Hiko Jikkentai	TRY code	<b>1001</b>	nov19
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This red/white Ninja was seen with a TRY code, replacing the unit's TE code. It is not known if this is a real code change or only applied for the open house.

#### UH-1J

41804	Okadama unit	ex TDY RJTU	<b>1J04</b>	jul18
41810	NH	ex MH	<b>1J10</b>	nov19
41825	WH	ex no unit code	<b>1J25</b>	oct19
41834	Tobu Hom.Her.	no EH code	<b>1J34</b>	nov19
41848/848	UtsunomiyaKou	ex X, no SU code	<b>1J48</b>	oct19
41866	II?	ex IX	<b>1J66</b>	oct19
41902	EH	ex TDY RJTU	<b>1J102</b>	nov19
41909	I	ex XIV	<b>1J109</b>	nov19

#### OH-6D

31284	NH	wfu? ex V	<b>6596</b>	jul18
31297	IV	ex II, ex VII	<b>6751</b>	may19
31308	X	40 years c/s	<b>6762</b>	nov19

The end of OH-6D operations is very near. 10 Hikotai at Akeno is about to bid farewell and painted one of its helicopters in special golden markings with 'Final Egg' and 'Farewell Oscar' titles. Prior the Akeno open house, a photoshoot on the base was observed with 10 and 13 Hikotai OH-6Ds. So maybe this marks the end for all OH-6D operations within the JGSDF. The only other unit seen operating the type in the last couple of months was 4 Hikotai at Metabaru.

#### TH-55J

61324/SU	Ishikawa Avtn Plaza, not seen	oct19	<b>44-0291</b>	nov18
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#### UH-60JA

43101/01	S	ex SK	<b>4001</b>	nov19
43114	WH?	at RJDM	<b>4014</b>	oct19
43125	WH	ex no unit code	<b>4025</b>	oct19
43135	WH?	at RJDM	<b>4035</b>	oct19

Kaijo Jieitai (NY)

#### SH-60J

8286	o/h RJNA	nmks, ex 21 Kokutai	<b>1076</b>	nov19
8302	22 Kokutai	ex 24 Kokutai	<b>1087</b>	oct19

#### UH-60J

8975	21 Kokutai	ex 72 Kokutai	<b>3015</b>	oct19
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#### SH-60K

8404	22 Kokutai	ex IRAN	<b>5004</b>	oct19
8412	21 Kokutai	ex 22 Kokutai	<b>5012</b>	nov19
8427	o/h RJNA	nmks/test, ex 22 Kok.	<b>5027</b>	nov19
8433	21 Kokutai	ex IRAN	<b>5033</b>	oct19
8441	51 Kokutai	ex IRAN	<b>5041</b>	oct19
8458	21 Kokutai	ex MHI	<b>5058</b>	oct19
8463	Mitsubishi HI	f/n, test at Nagoya	<b>5063</b>	nov19

#### CH-101

8192	ShiraseHikohan	IRAN at RJNG	<b>KH104</b>	oct19
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#### P-1

5517	1 Kokutai	ex nmks	<b>17</b>	oct19
5520	1 Kokutai	ex 3 Kokutai	<b>20</b>	oct19
5523	3 Kokutai	ex nmks	<b>23</b>	nov19
5525	Kawasaki HI	f/n, at Gifu	<b>25</b>	sep19

#### P-3C

5047	203 ATS	ex nmks	<b>9044</b>	oct19
5075	Atsugi	nmks, ex 1 Kokutai	<b>9072</b>	nov19

#### OP-3C

9132	81 Kokutai	nmks, IRAN-Nippi	<b>9066</b>	nov19
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#### UP-3D

9161	91 Kokutai	ex nmks/IRAN	<b>3001</b>	nov19
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#### T-5

6365	201 ATS	ex IRAN	<b>65</b>	oct19
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#### Kaijō Ho'an-chō (CG)

##### Falcon 2000MSA

JA572A/MAJ572	11th Region	at Naha	<b>332</b>	nov19
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Probably commissioned on the same day as JA573A/MAJ573.

Ministry of Defense (GV)

We missed this completely. Back in October 2015 the MoD implemented a major reorganization especially focussing on the streamlining of defence equipment acquisitions. Main goals for the newly established Acquisition, Technology and Logistics Agency (ATLA) is to manage acquisition programs more efficiently under reduced costs, enhance international cooperation and strengthen local technology. All organizations and offices that were previously spread across the MoD, including the Technical Research and Development Institute (TRDI) were merged into the ATLA.

The bulk acquisition of a number of types (e.g. the nine E-2Ds in the FY2019 budget) and the ending of F-35A production at Nagoya are measures taken by ATLA to reduce costs.

#### BK117B

6001	MoD/ATLA	red/white c/s	<b>1007</b>	may19
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**BK117B-1**  
0502 MoD/ATLA white/blue c/s 1107 aug19

**XUH-2**  
45001 MoD/ATLA at Akeno nov19  
This future UH-1J replacement was previously known as the UH-X. After testing and evaluation, it will be inducted into the JGSDF as UH-2.

## Laos

Laos People's Liberation Army Air Force (AF)

**MiG-21bis**  
16 stored Xieng Khouang N75094883 nov19  
731 stored Xieng Khouang N75081703 nov19

**MiG-21US**  
710 stored Xieng Khouang 06685136 nov19  
The MiG-21s are stored at this airbase for a number of years now. It took a while for our new editor to get some construction numbers!

## Mongolia

Mongolian People's Air Force (AF)

**MiG-29UB**  
Just at press closure the news came in that Mongolia is going to upgrade their fighter inventory. Until a few years ago it still operated MiG-21s, but after that the fighter aircraft were sitting idle. On 15 November two Russian Air Force MiG-29UBs landed at Nalayh air base, accompanied by an Il-76. It is believed that the aircraft were handed over to the MPAF on 26 November. The acquisition is believed to have been signed in 2004, but had to be renewed which happened in September 2019. It is expected that up to sixteen MiG-29s will follow in the near future, as well as several surplus Russian AF L-39s.

## Nepal

Nepal Army Air Wing (AF)

**AW139**  
9N-RAM 11th Brigade ex I-EASH 31860 sep19

**CN235-220M**  
NA-062 11th Brigade ex AX-2347 h/o 22nov19 N068  
The aircraft left Bandung on 30 October on delivery, still using its Indonesian test serial.

## Pakistan

Pakistan Fiza'ya (AF)

OPJA = Jacobabad-Shahbaz AB, SD  
OPRN = Islamabad/Benazir Bhutto Intl-Nur Khan AB, ICT

OPSF = Karachi-Shara-e-Faisal AB, SD

**F-6**  
10602 pres OPRN ex std OPSF, l/n feb07 oct19  
It was placed on a pedestal at a roundabout inside the Falcon Housing complex, inside the Nur Khan air base housing area. The airfield is often referred to as Islamabad but in fact the base is in the Rawalpindi part of town, N33.62340°, E73.10031°.

**JF-17B**  
19-604 AVIC/CAC f/n Chengdu oct19  
It was first noted in full Pakistan Air Force colour scheme, not in Pakistan, but at Chengdu/Huangtianba in China.

**F-86F**  
53-1109 pres OPJA ex pres Peshawar oct19  
It was last noted preserved at the University of Engineering and Technology in Peshawar in August 2005 and disappeared only to resurface by February 2019 in the administrative area of Shahbaz air base, N28.27938°, E68.47877°  
Pakistan Fauj (AR)

**AH-1Z**  
786-064 std AMARG ex Bell oct19  
786-065 std AMARG ex Bell oct19  
786-066 std AMARG ex Bell oct19  
Now all twelve are stored in the Sonoran desert.

## Philippines

Pilipinas Hukbong Himpapawid (AF)

**A-29 Super Tucano**  
PT-ZZM o/o f/f 4nov19 1400250 nov19  
PT-ZZN o/o 1400251 nov19  
PT-ZZO o/o 1400252 nov19  
PT-ZZQ o/o 1400253 nov19  
PT-ZZS o/o 1400254 nov19  
PT-ZZU o/o 1400255 nov19

On 4 November 2019 the first of six EMBRAER A-29 (EMB-314) Super Tucanos for the Philippine Air Force made its maiden flight. The contract for those six aircraft was signed on 30 November 2017 with an option for an additional 18 aircraft. It is expected that the initial two aircraft will be delivered to the Philippines in February 2020 after testing and initial pilot training in Brazil.

The aircraft will be used in the close air support role and as such are expected to replace SF260 aircraft with 17th Attack Squadron, which in turn are expected to return to their original role as trainer aircraft. When the option for 18 additional aircraft is taken then the future of the OV-10 aircraft will also look slim.



Erwin Alexander found this Fishbed with code "red 16" in a corner at the military barracks in Phonsavan, Xieng Khouang, Laos. As he was able to look in the right-hand main gear bay and he located the construction number N75081703, we can tell this is a MiG-21bis that used to be part of the Laos People's Liberation Army Air Force. (6 November 2019)



Another nice find at the military barracks in Phonsavan, Xieng Khouang, Laos. Construction number 06685136 makes this a genuine Mikoyan-Gurevich MiG-21US. The Lao People's Liberation Army Air Force had code 710 in black digits on the nose in better times. (6 November 2019, Erwin Alexander)  
Coast Guard (CG)

**H145**  
CGH-1451 ex D-HADK **20273** nov19  
The Philippine Coast Guard has taken delivery of the first of two brand new Airbus H145 helicopters. The helicopter with serial CGH-1451 was delivered by airfreight on 5 November. From last June the helicopter had been operating from Manching, Germany, training the new Philippine pilots, until it was returned to Donauwörth where it was taken apart for shipment.

The helicopters will be used in the maritime patrol, law enforcement, search and rescue and medical evacuations role. For this they will replace the two MBB Bo105s, the first of which was delivered in 1975. When the second H145 will be delivered is yet unknown.

## South Korea

Han Guk Gong Gun (AF)

**F-5E**  
61-652 18 FW/105 FS ex 8 FW, correction! **R1350** oct19  
61-663 18 FW/105 FS ex 112 FS **R1364** nov19  
F-5E 61-652 had an 105 FS badge so it is NOT withdrawn.

**KF-5E**  
10-568 18 FW/112 FS ex 10 FW **KE1011** oct19  
10-617 10 FW ex 8 FW **KE1040** oct19

**F-35A**  
18-001 17 FW ex 944th OG **AW-01** oct19  
18-002 17 FW ex 944th OG **AW-02** oct19  
18-003 17 FW ex 944th OG **AW-03** aug19  
18-004 17 FW ex 944th OG **AW-04** aug19  
19-012 LockheedMartin f/n, at NAS Ft.Worth **AW-12** nov19  
19-013 LockheedMartin f/n, at NAS Ft.Worth **AW-13** nov19

## Thailand

Police (PO)

**Bell 206L-4**  
2401 o/o ex VH-PBU **52204**  
2402 o/o ex (2401 ntu),VH-PMH **52094**

**Bell 412EPi**  
2613 o/o ex N865RB **37041**

**Bell 429**  
34.. o/o ex N852KB **57352**  
34.. o/o ex N859BH **57353**

The two Bell 429s were registered in the US register on 29 May 19.

## Sky Scout

U1-02 nov19  
U1-07 nov19  
U1-09 nov19  
U1-14 nov19

At the start of the Defence and Security Exhibition on 14 November the Air Force presented their new Unmanned Aerial System, the Sky Scout. Seventeen UAS aircraft have been ordered and they will be operated by 206sq based at Watthana Nakhon.

KASET (AG)

**NC212i**  
1544 ex AX-2124 (corr Scr486) **4-435/N115**  
1545 ex AX-2125 **4-436/N116** nov19  
AX-2125 left Bandung 10 November 2019 on delivery to KASET. This is the last of two NC212is ordered by KASET The construction number needs confirmation.

## Latin America

### Argentina

SACA = Córdoba/FAdeA

The AB206 helicopters obtained from Italy are in the process of being dispersed among the various branches of the armed forces. Not only an Army example was seen, but also one for the Prefectura Naval and Gendarmería Nacional.

Comando de Aviación de Ejército Argentino (AR)

**AB206B-1**  
AE-311 FAdeA f/n SACA dec18 oct19  
Footage from April showed two being worked on, CC-71 marked "1" and CC-75 marked "2". With AE-310 used for instructional purposes at Frosinone, we suspect that these are the first two Army aircraft and will become / became AE-311 and AE-312 respectively. Any confirmation welcome of course!

Prefectura Naval Argentina (CG)

**AB206B-1**  
"AE-T-001" FAdeA f/n SACA, fcs oct19  
"AE-T-002" FAdeA f/n SACA, fcs oct19

Obviously, these are temporary markings. And yes, these could also have been CC-71/1 and CC-75/2 mentioned above...

### Brazil

Comando da Força Aeronaval (NY)

The third upgraded AH-11B 'Wild Lynx' for the Brazilian

Navy was handed over at Yeovil on 4 November. The aircraft with serial N-4005 is slated to be delivered to Brazil by early December joining the first two, N-4001, N-4004 with HA-1.

## Chile

Fuerza Aérea de Chile (AF)

### T-36 (C101)

402 Alto Hospicio "w/o" nov19 **BB02-2-56**

It was preserved on a pole along Route 16 and burned by protestors during the recent civil unrest in Chile. That is why its status is between quotation marks!

## Colombia

Fuerza Aérea Colombiana (AF)

### Bell 412EP

FAC0006 GRUVE 82 w/o 26oct19 **36585**

## Peru

Fuerza Aérea del Perú (AF)

Early November a Cessna 680 Sovereign marked 'FAP3001' was seen at Düsseldorf airport. This is thought to be the new presidential aircraft for Paraguay. After the venerable Boeing 707 4001 was struck of charge back in 2007, there has not been a true replacement. Lately, aircraft were chartered, like Ce560XL N590VP, temporarily adorned with the coat of arms of the Republic. In 2012, a plan to acquire a single Embraer Legacy VIP jet fell through.

### Bell 407GX

H-0402 GAH del 01nov, ex N861KD **54834** nov19  
Received from the Republic of China (Taiwan) as part of the ongoing bilateral cooperation that also saw two more Hueys delivered earlier this year. Although it is operated by the helicopter unit, it is marked with the seal of the República del Paraguay.

### Ce208B

... GATE ex ZP-BCW **208B-2190** sep19  
This Caravan was bought second hand for around €1,5 million and taken on charge 29 August 2019. It was seen active on ADSB still using its previous registration. Logically, it would take up 0252 as serial.

Ejército del Perú (AR)

### Mi-171Sh-P

EP-672	nm	c/n update	<b>7446U</b>	nov19
EP-679	nm	c/n update	<b>7453U</b>	feb19
EP-680	nm	c/n update	<b>7454U</b>	sep19
EP-681	nm	c/n update	<b>7455U</b>	nov19

EP-683	BAT811	c/n update	<b>7457U</b>	may19
EP-684	nm	c/n update	<b>7458U</b>	jun18
EP-686	BAT811	c/n update	<b>7460U</b>	oct19
EP-688	BAT811	c/n update	<b>7462U</b>	nov19
EP-689	BAT811	c/n update	<b>7463U</b>	nov19
EP-690	nm	c/n update	<b>7464U</b>	jul19

Very welcome sightings that seem to indicate that the batch of 24 (EP-667 to EP-690) runs from **7441** to **7464**. There is a whole string of numbers preceding the last four of the construction number: **171S0060413**. Of this, 604 is the ICAO country code of Peru and 13 stands for the year of acquisition.

## Venezuela

Aviación Militar Nacional Bolivariana (AF)

### AS332B1

49614/KT Grupo 10 reregistered oct19  
Its former four-digit registration is unknown.

### DA40NG

61444/CE	Grupo 18	c/n update	<b>40N.241</b>	oct19
61552/CE	Grupo 18	f/n		oct19
61554/CE	Grupo 18	c/n update	<b>40N.251</b>	oct19
61557/CE	Grupo 18	f/n		oct19
61559/CE	Grupo 18	f/n	<b>40N.256</b>	oct19

Armada Nacional Bolivariana (NY)

### CeU206G

AB-0505 reregistered as 01105  
01105 Esc Aeron.Adto. f/n, ex AB-0505 oct19

Sightings of new five digit serials keep trickling in. The Stationair is operated by the Escuadrón Aeronaval de Adiestramiento.

Ejército Nacional Bolivariano (AR)

### Bell 412EP

EB-09570 711 BH reregistered jul19

## Middle East

### Saudi Arabia

al Quwwat al-Jawwiya as Sa'udiya (AF)

### A330-203 MRTT

2403 24sq **1235** feb19

This is the Airbus with the special Saudi 88 years celebration livery scheme.

Saudi Arabian National Guard (SANG)

### AH-6i

61010 1st Aviation Brigade f/n, ex Boeing 14-61010 photo



VC-2 (ERJ190AR) 2590 of GTE was a visitor from Brazil providing support to the Ocean Sky 2019 XIV multinational exercise. Next month we will provide full report. (Gran Canaria - Gando Airport, 30 October 2019, Leo de Ree)



Brazilian Air Force Embraer KC-390 2853 is one of the first examples delivered to an operational unit. 1°GTT received this example, but it was used to fly halfway around the world for the Dubai Air Show for Embraer. Shaun Psaila was able to capture the aircraft on his camera while tech stopping in Malta en route to Dubai. (14 November 2019)

#### Royal Saudi Naval Force (NY)

##### MH-60R

801	HSM-40 f/n Savannah, BuNo 169383	<b>70-4884</b>	nov19
803	HSM-40 f/n Mayport, BuNo 169385	<b>70-4886</b>	apr19
805	HSM-40 f/n Mayport, BuNo 169387	<b>70-4888</b>	apr19
806	HSM-40 f/n Mayport, BuNo 169388	<b>70-4889</b>	apr19
810	HSM-40 f/n Mayport, BuNo 169392	<b>70-4893</b>	apr19

Looks like all ten Seahawks have been delivered to Naval Station Mayport (FL) for crew training with HSM-40. Eighteen naval aviators and two aircrew members from the Royal Saudi Naval Forces (RSNF) participated in a winging ceremony with the US Navy Air Wolves of HSM-40 fleet replacement squadron on 12 November 2019. All the graduates spent several years in much of the same training that their equivalent US Navy colleagues complete as part of a rigorous naval aviation training program. The RSNF students completed an overall pipeline of training to prepare them for flight operations in the MH-60R multi-mission helicopter, which provides the capability to identify, engage, and defeat maritime security threats along with the ability to perform secondary missions including vertical replenishment, search and rescue, and communications relay. This was the first group of both Saudi pilots and aircrew to complete their associated training paths for this particular aircraft.

#### United Arab Emirates

##### United Arab Emirates Air Force & Defence Force (AF)

The United Arab Emirates (UAE) has revealed its intentions to order three more Airbus A330 Multi-Role Tanker Transport (MRTT) to double its fleet. The order for the additional A330MRTTs did not bring any smiles to the people of Boeing at the Dubai Air Show. Earlier this year, Boeing revealed the UAE had shown interest in its KC-46. The UAE already has three MRTTs. These air refuelling platforms are being used heavily in support of UAE Air Force fighter deployments and operations across the region. During the opening fly past on 17 November 2019, A330-243MRTT serial 1300 appeared, for unknown reasons, with all markings removed, except for its serial.

The UAE will buy two more GlobalEye airborne early warning planes from Saab, bringing the country's total number of aircraft to five, officials announced on 19 November 2019 at the Dubai Air Show. No contract has been signed, and the terms of the order will not be set in stone until final negotiations have concluded. However, the sale is worth about \$1 billion, Saab announced in a news release.

The Swedish defence and security company Saab flew a modified Bombardier BD-700-1A10 Global Express 6000 Vision Flight Deck to Al Maktoum, Dubai, United Arab Emirates (UAE), almost exactly four years after the initial contract. The contract was awarded at the Dubai Air Show November 2015 by the United Arab Emirates with an initial order for two GlobalEye aircraft. An additional order by the UAE for a third system was announced in 2017 (this is SE-RMU that appeared at the air show). The multi-role Airborne Early Warning & Control (AEW&C) platform was flown from Linköping in Sweden via Crete on 14 November 2019. Its arrival came less than three months after Saab conducted a first flight of SE-RMU (ex C-FSYV 9787) after making the extensive adaptations required to install its sophisticated mission equipment. It is showcased at the static display with temporary UAE markings applied. The first adapted Global 6000 (SE-RMY, ex C-FIPT 9714) made its flight debut in March 2018, followed by a second in January 2019 (SE-RMZ, ex C-FLGD 9743) and the on-show example in late August 2019. According to Saab, aerodynamic flight tests are concluded, system verification acceptance tests are ongoing, and they are extremely pleased with the system performance. A training programme has also begun with the customer, and initial mission equipment and spares have been delivered. Initial delivery is slated for before the end of the first quarter 2020.

The GlobalEye programme's lead aircraft is currently having its onboard test equipment removed following the completion of envelope expansion work and certification flight testing. The second aircraft has conducted system-level testing, including of all onboard equipment, data links and ground communications, plus the GlobalEye's command and control functionality. The third aircraft, which will be returning to Sweden immediately after the show, has already been used to support pilot and operator training activities.

After what is described as long and difficult negotiations, the United Arab Emirates and Dassault Aviation have signed a Mirage 2000-9 modernization contract. Two years after the announcement of the modernization of the fleet Mirage 2000-9, the United Arab Emirates (UAE) have eventually quietly signed the contract with Dassault Aviation. The estimated \$462 million contract was announced at the Dubai Air Show on 19 November 2019. During the last Dubai Air Show in November 2017, it was the Minister of Defense of the UAE who announced this operation to modernize the aircraft of Dassault Aviation and its equipment. The UAE also

announced plans to upgrade its entire fleet of 80 F-16s for \$ 1.77 billion (including spare parts and support). It looks like an UAE contract for new Dassault Rafale or Lockheed Martin F-35 is not very likely anytime soon.

**AW139**

2017 VIP Flt f/n Maktoum nov19  
A nice visitor was noted during the Dubai Air Show in the form of this Leonardo helicopter, previously unknown to us. Interesting is the serial, as we previously thought an AS365N3 Dauphin, F-WWOB seen in Marseille between June 2002 and November 2002, had acquired this number.

**AS365N3**

2001 VIP Flt noted Ras al Khaimah **6551** nov19  
This helicopter was built in 1998 and joined the VIP Flight some 19 years ago. It went back for overhaul to France in the summer of 2010 and passed through Corfu in June 2011, presumably for sale. An Augusta A109 with the same serial 2001 had been noted twice at Al Bateen, Abu Dhabi in both March 2014 and June 2015 in the meantime. We doubt these sightings now, looks like the type was misidentified and the original 2001 is still in use.

**B-250**

980 all black, ex PR-ZNT nov19  
981 grey camo, ex PR-ZNU nov19  
United Arab Emirates (UAE) aerospace company Calidus LCC has scored its first contract for the B-250 light attack aircraft, when the United Arab Emirates Armed Forces placed an order for 24 planes at the Dubai Air Show on 20 November 2019. The contract, worth about \$260 million, represents the first time the UAE military has purchased a domestically-produced aircraft. The first B-250 plane was unveiled at Dubai Air Show 2017.

Calidus is a Defence Technology Development and Manufacturing Company, based in Abu Dhabi, United Arab Emirates and was founded in 2015. It has been stated Calidus is an integral part of the defence structure of the UAE. The B-250 was developed in close conjuncture with a company named Novaer in Brazil. The B-250 programme was launched in 2015 and its first prototype was developed within a period of 25 months, completing its maiden flight in July 2017. The chief designer for the project was Joseph Kovács, who was also a part of the design team of Embraer Tucano light attack aircraft. Calidus plans to construct a manufacturing facility in Al Ain City to facilitate the full-scale production of the B-250 aircraft. Two prototypes were built in Brazil and transported

as air freight to the Emirate. An all-black B-250 with registration PR-ZNT (later serial 980) flew during the Dubai 2017 Air Show. A grey camouflaged B-250, serial 981 (ex PR-ZNU), was showcased with heaps of local manufactured external weapons at the Dubai 2019 Air Show. Calidus will construct a manufacturing facility in Al Ain City to facilitate the full-scale production of the B-250 aircraft.

The Calidus B-250 is further described as a superior and highly efficient light attack aircraft that is designed especially for asymmetric warfare zones and easily adapts to the most difficult terrain and weather conditions. It incorporates a carbon fibre structure that can brave the roughest terrain and flaunts ground-breaking technology to deliver best-in-class versatility and transportability at the low operational costs. The B-250 is capable of Close Air Support (CAS), Intelligence, Surveillance, and Reconnaissance (ISR), Counterinsurgency (COIN), Persistent Air Support (PAS) and Advanced and Basic Training.

The B-250 is a low-wing, tandem-seat, single-turboprop, basic trainer with counter-insurgency capability. Its wing and fuselage structure is constructed entirely of carbon fibre, thus making it much lighter than its competitors. It has seven hard points for placing weapons as well as EO / IR with a capacity of up to 1,800 kilograms. It features a spacious cockpit and the Rockwell Collins Pro Line Fusion II avionics systems. The powerplant consists of a Pratt & Whitney Canada PT-6A-68 turboprop capable of 1,600 shaft horse power. Under the nose a Wescam MX-15 electro-optical/infra-red turret can be fitted.

**C295W**

822	delivered	ex Airbus Military	<b>182</b>	nov19
823	Airbus Military	c/n update	<b>184</b>	apr19

Joint Aviation Command (AR)

On 7 November 2019, the US State Department approved a possible Foreign Military Sale to the United Arab Emirates Air Force and Air Defense (UAE&AD) of ten CH-47F Chinooks and related equipment for an estimated cost of USD 830,3 million. Boeing Helicopters Aircraft Company is the principal contractor. The proposed sale contains spare parts, personnel training, training equipment and ground support equipment. The separate tri-service rotary force, Joint Aviation Command (JAC) formed in 2012, is the controlling command for virtually all UAE “dark grey and green” helicopters including some fixed wing assets. Group 25 is located at Sas al Nakhil-Umm an Nar (UAE) and has some twenty C-47Fs on



Super Hercules C-130J-30 667 of 103 squadron was captured by Jim Walg during the recent Blue Flag exercise at Ovda, Israel. (11 November 2019)



Leonardo AW139 2017 of the VIP Flight was a visitor at the recent Dubai Air Show at Al Maktoum in November 2019. Interesting for us is the serial, as we previously thought an AS365N3 Dauphin 2, F-WWOB seen in Marseille between June 2002 and November 2002, had acquired this number. This seems to have been incorrect. (Keith Doughty)

strength. Some eight older CH-47C+ variants are thought to have been withdrawn.

#### Bell 407GX

2898 Group 28 f/n Ras al Khaimah **54674** nov19

#### Thrush S2R-T660

2379 Group 23 f/n, ex N821KH **T660P-121DC** oct19

#### UH-60L

2612 Group 26 f/n Ras al Khaimah nov19

2632 Group 26 f/n Ras al Khaimah nov19

2635 Group 26 f/n Maktoum nov19

2638 Group 26 variant confirmation feb14

2640 Group 26 variant confirmation nov19

#### UH-60L

2635 Group 26 c/n update **70-3270** nov19

#### UH-60M

2657 Group 26 f/n Maktoum nov19

#### UH-60M ABH

2645 Group 26 ex UH-60M nov19

During the International Defence Exhibition (IDEX) in February some details about the Sikorsky Armed Black Hawk (ABH) were revealed. By now we have some more insight in the total scope of the program. The program was launched in 2011 and involved three modified UH-60M helicopters that went through a six-year test and development programme, including two-years of live-firing trials and qualification at Yuma Proving Ground (AZ). Sikorsky was contracted to train and qualify JAC personnel. Qualification was achieved in February 2018. By late 2018 four UH-60Ms had been modified in country by Advanced Military Maintenance Repair and Overhaul Center (AMMROC). In February a further two had been modified. In total 24 kits have been ordered.

Sikorsky refers to the variant as ABH. JAC calls the modified Black Hawk a direct action penetrator (DAP). Modifications include stub wings with four hard points containing Talon laser-guided rockets, Hydra-70 unguided-rockets, a three-barrel GAU-19/A heavy machine gun and AGM-114 Hellfire missiles. Two M134 Miniguns can be mounted in the windows as crew-served weapons, but can also be locked to fire forwards, operated by the pilots. The ABH can also mount an electro-optic FLIR Systems BRITE Star II turret. The cabin can also hold a 200-gallon auxiliary fuel tank.

## North America

### United States

United States Air Force [AF]

Long but VERY interesting (must) read. With full credits to Aviation Week & Space Technology.

“The United States Air Force does not discuss this programme” In December 2013, AVIATION WEEK and Space Technology (Amy Buttler, Bill Sweetman) reported about a new, large, classified and secretive, stealth Unmanned Aerial System (UAS) of the US Air Force. The Northrop Grumman built UAS already flew at that moment for an unknown period and was expected to be operational by 2015.

The UAS is funded through the USAF’s classified budget, and is possibly designated RQ-180. The UAS was designed for the penetrating Intelligence, Surveillance and Reconnaissance (ISR) and electronic attack mission that was conducted by the SR-71A Blackbird up to 1998. The RQ-180 could operate in non-permissive / contested environments and eclipses the smaller, less stealthy and shorter-range RQ-170 Sentinel and adds the mission of the MQ-4 Global Hawk and MQ-9 Reaper fleet. It is believed the USAF as well as the CIA operates the aircraft.

Back in 2008, Northrop Grumman’s financial reports point to a possible award of a secret UAS contract, when the company disclosed a US 2 billion increase in the backlog in its Integrated Systems division, the operating unit responsible for building the B-2 bomber, Global Hawk and Fire Scout UAS and X-47B unmanned combat air system (UCAS) demonstrator. In 2013, Northrop Grumman financial reports acknowledged that an unnamed aircraft programme entered low-rate initial production. It must be noted that new shelters and hangars appeared at Northrop’s Palmdale (CA) and at Tonopah, Area 51 Groom Lake (NV) that could house a 130ft (40 meter) wingspan from 2008.

AW&ST reports that the RQ-180 has its roots in Northrop Grumman’s Joint Unmanned Combat Air System (J-UCAS) project that was “cancelled” in 2005. But later the US Navy X-47B and the US Air Force RQ-170 appeared in real life, both with their own prospects.

A key feature of the RQ-180's design is an improvement in all-aspect, broadband radar cross-section reduction over Lockheed Martin's F-117, F-22 and F-35. This is optimized to provide protection from low- and high-frequency threat emitters from all directions. The design also merges stealth with superior aerodynamic efficiency for increased altitude, range and time on station. The clandestine UAS is also able to refuel mid-air.

Now... six years later, Aviation Week (Guy Norris) again reports about the RQ-180 that still isn't revealed to the public. The much respected news agency sees a growing body of evidence that the stealthy UAS is now fully operational with the USAF. Their analysis shows it flies since 2010 (possibly first flight of "V1" on 3 August 2010). AW reports: "Circumstantial evidence that supported the build-up of pre-first-flight test activity included frequent flights to the site by Northrop Grumman-owned Beech 1900D logistics aircraft, one of which was seen parked by the large Southend hangar in a May 2010 satellite image." A second aircraft, V2, joined the flight test programme in November 2011, followed by V3 in November 2012, V4 in July 2013 and V5 in February 2014. The dubbed RQ-180 is possibly undergoing its Operational Test and Evaluation programme since late 2014. It is believed seven aircraft became fully ops with the recently reformed 427th Reconnaissance Squadron, based at Beale AFB (CA). Still, the USAF declined to comment on the status of the programme. But, as Scramble reported before, when the USA wants to keep something secret, they can do it! So images remain elusive and only rumours continue. Scramble has knowledge from their breaking F-117 deployment reports, that "other" classified high-altitude, long-endurance (HALE) "speedy" aircraft supported operations over the Middle East from 2016 onwards. These aircraft flew directly from unknown locations the States to the area of operations and returned to base without fuel stops.

Mid-2014, the programme was partly transitioned to Edwards AFB (CA) where Detachment 1 of the 53rd Test and Evaluation Group was officially stood up at the secretive South Base area in March 2014. Tasked with operational test and evaluation, Detachment 1 appears to be a logical choice for the role as the group's Detachment 2, based at Beale, performed evaluations of the Lockheed Martin U-2R/S and RQ-4 Global Hawk.

Activity in the programme stepped up through the remainder of the year, with the first flight of V6 believed to have taken place in September 2014. In late 2014, and early 2015, a unit described as Detachment 2 of the 15th

Test Flight (part of the 53rd Wing at Eglin AFB, FL) was stood up at Edwards, likely marking another key phase for acceleration of the new UAS capability toward front-line operational service.

The 15th Test Flight has responsibility for test management oversight of the USAF's high-priority, rapid acquisition programmes. According to 53rd Wing instruction documents published in 2014 and updated in 2018, the 15th Test Flight "provides operational test management services for a specific subset of developmental systems that require expedited delivery to the war fighter." Detachment 2's sister unit, Detachment 1, was assigned at the time to provide test management of Lockheed's RQ-170 Sentinel at Creech AFB (NV).

In November 2015, V7 is believed to make its first flight. In summer 2016, the system took another step toward its operational debut when Detachment 2 of the 9th Operations Group was established at Edwards South Base. The 9th Operations Group is the operational flying component of the Beale-based 9th Reconnaissance Wing and is usually tasked with training and equipping U-2R, RQ-4 and Beechcraft MC-12W Liberty combat elements.

Following the establishment of Detachment 2 in 2016, preparations for initial operations entered the final phases and are believed to have culminated in a secret long-range graduation test mission from Edwards sometime in early 2017. No details of the flight, thought to have been code-named Project Magellan, have been acknowledged, but the mission is thought to have focused on validating the performance of the autonomous navigation system at extremely high latitudes—possibly as high as the Geographic North Pole. It should be noted the secret code name was shared with Northrop Grumman's public search to find an engineering base for the B-21 program around that time.

Scramble is able to confirm that late 2017, Edwards South Base was extra secured and the public affairs office told us that an Army Aviation unit was temporarily deployed. But no further info was given, and strikingly no helicopters were seen. But night-activity from South Base was reported.

With this mission accomplished, the RQ-180 was seemingly fit for initial deployment in 2017. And in quick succession during August that year, the 9th Operations Group stood up two new supporting units. Detachment 3 was established at Beale, while Detachment 4 was set up at Andersen AFB (Guam), representing a significant ramp-up in preparations for operational readiness.



B-2A 89-0129/WM "Spirit of Georgia" of the 509th Bomb Wing is getting close to thirty years old already. Martin Uleman captured the Spirit during approach to RAF Fairford. (2 September 2019)



*Ocean Sky 2019 XIV was a large multinational exercise that took place from the military side of Gran Canaria - Gando Airport in October 2019. Next month we will provide a full report, this month a teaser in the form of F-15C Eagle 86-0165/LN of 493rd FS. (23 October 2019, Eric Tammer)*

Detachment 3 had previously operated the RQ-4 out of Guam, while Detachment 4 had also formerly operated the Global Hawk out of Sigonella AB (Italy).

The following year, 2018, another unit was established at Beale to further test and evaluate the readiness of the aircraft. The activation of Detachment 3 of the 605th Test and Evaluation Squadron, the command-and-control and ISR test manager for the Air Force's Warfare Center and Air Combat Command, was accompanied by the deactivation of Detachment 1 of the 53rd Test and Evaluation Group at Edwards.

The assets and test personnel of the unit were believed to be immediately transferred to the newly activated 417th Test and Evaluation Squadron, a unit which previously tested the C-17 and YAL-1 airborne laser. Until recently, the true test focus of the squadron—which was stood up in April 2018—was linked with preparations for B-21 testing. However, at this year's Air Force Association meeting in September, it was announced that the new bomber test role has been assigned to the 420th Test and Evaluation Squadron.

Further signs of RQ-180 regular operations support activity are believed to have been indicated by the activation during 2018 and early 2019 of Detachment 5 of the 9th Operations Group at Beale to serve as the schoolhouse unit for the aircraft. Given the 9th Operations Group's role in training, planning and execution of U-2 ISR missions as well as training for RQ-4 flight crewmembers, this unit would be considered as a logical candidate to support and train RQ-180 operations.

In a final phase of changes this year, all of which have been focused on Beale, Detachment 3 of the 9th Operations Group was deactivated in April and its personnel and assets transferred and immediately activated again as the 427th Reconnaissance Squadron — a shadowy unit that previously operated the MC-12W and was inactivated in November 2015 when these aircraft were transferred to the US Army. However, evidence from open sources indicates the current commander of the 427th RS has held this role since 2015, even though the unit officially did not exist for most of that period.

Although the Air Force has made no reference to operations by the unit involving any particular aircraft type, the 427th Reconnaissance Squadron, together with

Detachment 5 of the 9th Operations Group and Detachment 3 of the 605th Test and Evaluation Group, hosted the opening of a new Common Mission Control Centre at the base on 23 April 2019. The new centre will "provide combatant commanders scalable, tailorable products and services for use in contested environments," the Air Force says. "Using software, hardware and human machines, the centre will be able to manage C2 productivity, shorten the task execution chain, and reduce human-intensive communication."

USAF mega adversary deals announced! On 18 October 2019, the USAF announced combined deals worth (and not-to-exceed) \$6,400,000,000. Seven companies were awarded an indefinite-delivery/indefinite-quantity contract for 'Combat Air Force adversary' air support operations. The awarded contractors will provide complete contracted air support services for realistic and challenging advanced adversary air threats and close air support threats. Work will be performed at multiple USAF locations. The contractors will provide complete services, including - but not limited to - aircraft, unmanned aircraft systems, aircraft systems support, pilots, aircraft maintenance, support equipment. Also, programme, quality, and contract management. All this is to meet military requirements and is expected to be completed by 29 October 2024.

The following companies were awarded contracts:

- Air USA Inc., Edgewood (NM)
- Airborne Tactical Advantage Company LLC., Newport News (VA)
- Blue Air Training, Las Vegas (NV)
- Coastal Defense, Mill Hall (PA)
- Draken International, Lakeland (FL)
- Tactical Air Support, Reno (NV)
- Top Aces Corp., Mesa (AZ)

The US Air Force wants to train with its fighter jets at lower altitudes in lightly populated areas of southwestern Idaho, northern Nevada and south-eastern Oregon, in order to simulate combat conditions in a better way. On 16 October 2019, the USAF announced it plans to prepare an environmental impact statement to study the idea. It will hold meetings and take public comments through to 25 November 2019 to help shape the study. The 366th Fighter Wing at Mountain Home

AFB (ID) will be the main 'consumer' of such low-level flights. The wing operates three F-15E squadron, 389th Fighter Squadron "Thunderbolts" and 391st FS "Bold Tigers", as well as the Singaporean 428th FS "Buccaneers" equipped with the F-15SG. It is expected that an additional Saudi squadron will arrive at Mountain Home, equipped the F-15SA. The USAF says allowing jets to fly lower will give crews training in low-altitude tactics and radar masking using mountainous terrain for survival.

On 16 October 2019, two US F-15E Strike Eagles, based at Muwaffaq al Salti AB (Jordan), conducted an airstrike on a US (!) coalition base in northern Syria after it had been vacated, to prevent it from being utilized by other forces. Operation Inherent Resolve (OIR) spokesman Colonel Myles B. Caggins said to the press that the pre-planned strike at the Lafarge Cement Factory near the Turkish border in Syria targeted an ammunition cache to "reduce the facility's military usefulness." The coordinated strike was conducted after all personnel and tactical equipment had been removed from the base. The factory compound had been utilized as the headquarters for the coalition forces' mission targeting the Islamic State in Syria. More US troops are currently withdrawing from the northeast of Syria. The Strike Eagle strike comes as Turkish forces move into northern Syria as part of their Operation Peace Spring, which began last week. The Turks want to clear the area of Kurdish forces as Erdogan views these as terrorists. Turkish troops began their advance after US troops were ordered to withdraw from the region by President Donald Trump -- a decision that has been met with national and international condemnation.

On 10 October 2019, the 356th Fighter Squadron was reactivated at Eielson AFB (AK). 356th FS, also known as the 'Green Demons', is now part of the 354th Fighter Wing. The 356th FS will be the first unit within the Pacific Air Forces (PACAF)/United States Indo-Pacific Command (USINDOPACOM) to receive the F-35A Lightning II during the spring of 2020. The 356th FS/354th FW F-35As will be strategically placed in Alaska to support the Pacific Theater. 356th FS's last assignment, before being inactivated during June 1992, was with the 354th FW. Back then, the wing, operating a fleet of A-10A Thunderbolt IIs, was stationed at Myrtle Beach AFB (SC). Building up the 354th FW, it is also expected that the 355th FS will be reactivated at Eielson as a F-35A unit during the last quarter of 2020. The Lightning II is no stranger to Eielson. Lockheed Martin already carried out F-35 icy runway ground

tests at Eielson during the end of November 2017. The tests with F-35A 'AF-02' were part of the certification process for the Netherlands/Norwegian F-35 drag chute.

Recently, the 355th Fighter Squadron's flagship F-16C 85-1468 was noted at JRB Fort Worth-Carswell Field (TX) as the new 24th Fighter Squadron's flagship. It was already announced some months ago that the 24th FS was to be formed from the 355th FS. The latter is an active-duty associate unit administratively assigned to the 495th Fighter Group. It operates 'TX' coded F-16s assigned to the Air Force Reserve Command's 457th FS/ 301st FW. It is expected that the 24th FS will be officially inaugurated on 25 October 2019. The 355th FS will be reactivated at Eielson AFB (AK) as an F-35A Lightning II unit. This will take place at the end of 2020.

Northrop Grumman Systems Corp., Melbourne (FL), has been awarded a USD 495 million contract for the modernisation and sustainment of the E-8C Joint Surveillance Target Attack Radar System (J-STARS) aircraft. The contract is part of the 2019 defense authorisation bill. The contract, announced by the Pentagon on 27 September 2019, involves sixteen mission and one trainer aircraft. The E-8C is a highly modified Boeing 707-300 commercial airliner airframe, and is the primary platform for the USAF for battle management and tracking of ground targets. Work on the seventeen aircraft will be provided at the Warner Robins Air Logistics Complex at Robins AFB (GA) and Melbourne (FL) and is expected to be completed by 26 September 2024. All aircraft are carrying the 'GA' tail code and belong to the 128th Airborne Command and Control Squadron (ACCS) which is a unit of the 116th Air Control Wing part of the Georgia Air National Guard at Robins AFB. The sole training aircraft (\*) the E-8A, belongs to the 330th Combat Training Squadron as part of the 461st Air Control Wing. Scramble lists the following seventeen aircraft in order of serial, type, construction number and line number, last-noted (anyone an update?) and its former identity.

86-0416\*, TE-8A, 19626/703/T-1, 330th CTS, apr19, N770JS  
92-3289, E-8C-10, 19622/660/P-1, feb14, N4131G  
92-3290, E-8C-10, 19295/617/P-2, feb19, 4115J  
93-1097, E-8C-10, 19296/630/P-4, jan19, N6546L  
94-0284, E-8C-10, 19293/546/P-5, nov16, N2178F  
94-0285, E-8C-10, 19442/609/P-6, apr19, 67-30054  
95-0121, E-8C-10, 20016/752/P-8, mar18, 68-11174  
95-0122, E-8C-10, 20495/852/P-7, jun14, 71-1841  
96-0042, E-8C-20, 20319/833/P-9, sep19, CAN 13705  
96-0043, E-8C-20, 20316/825/P-10, may16, EL-AKT



Seahawk MH-60R 167047/HQ-770 of HSM-46 "Grandmasters" at NAS Mayport (FL) was only recently painted in the above new colour scheme. (23 October 2019, Carey Mavor)



Two Marines F-35B Lightning IIs and a CH-53E of 31st Marine Expeditionary Unit (31st MEU) seen on the deck of the USS Wasp (LHD-1) on 27 July 2019. (Brisbane, Richard Ennis)

97-0100, E-8C-20, 19986/730/P-11, nov18, N707MB  
 97-0200, E-8C-20, 20317/826/P-12, mar19, CAN 13703  
 97-0201, E-8C-20, 20318/829/P-13, feb17, CAN 13704  
 99-0006, E-8C-20, 19998/750/P-14, mar19, 68-11072  
 00-2000, E-8C-20, 20043/786/P-15, sep19, 85-6973  
 01-2005, E-8C-20, 19382/627/P-16, mar18, N7567A  
 02-9111, E-8C-20, 19581/638/P-17, mar19, 81-0896  
 02-9111 is marked 'Let's Roll / Pride of Lake Charles'

It looks like this will be the final modification round to the E-8C fleet as there will be no dedicated successor once the E-8C J-STARS have been retired. Due to changing operational circumstances and developing technologies, there will probably no longer be a viable requirement for a J-STARS-like aircraft. In light of this the USAF intends to cancel the J-STARS recap programme in its fiscal year 2019 budget submission.

Back in December 2016, the USAF launched a request for proposal for the engineering, manufacturing and development of a fleet of seventeen new aircraft with an estimated price tag of at least USD 6,9 billion. The new aircraft, based on a Gulfstream/Bombardier type of aircraft, was seen as a replacement for the E-8C. The USAF most probably will be able to cancel the future J-STARS recapitalisation programme and it is getting additional funds for its alternative effort for the so called Advanced Battle Management System (ABMS). It was stated at the end of July 2018, that the Defense authorisation bill would accelerate the ABMS by adding USD 120 million for six General Atomics MQ-9 Reapers, which could be used to help to stimulate the ABMS architecture's abilities.

After its initial combat mission over Afghanistan, USAF's Ghost rider will be home before Christmas Although not much has been revealed recently by the USAF, the Lockheed AC-130J Ghost rider gunship, described by Air Force Special Operations Command (AFSOC) as the ultimate battle plane, has been performing very well during its initial combat missions in and over Afghanistan. Flying in and over Afghanistan with at least two Ghost riders since the end of June 2019, after relieving two 4th Special Operations Squadron AC-130Us, 73rd Special Operations Squadron AC-130Js have

been used extensively during their initial combat mission. At the end of June, two AC-130Js were noted at Lajes airbase on the Azores. Both aircraft, 15-5811 and 16-5835, were believed to be heading east during that time. Their final destination would be either Kandahar or Bagram (Afghanistan). AC-130J Ghost riders have now flown hundreds of sorties since the start of the combat missions. At the beginning of November it was stated that a total number of 218 sorties were carried out in/over Afghanistan, accumulating a total of 1,380 hours. With that many sorties it is imaginable that the Ghost rider flies every single night. With internal and external weapons systems, including a 105mm artillery piece, a 30mm GAU-23/A cannon, GBU-39/B Small Diameter Bombs (SDB) and AGM-114 Hellfire missiles, this 'lethal' aircraft is a welcome air asset in the Afghan theatre. At this moment it is not known to Scramble Magazine if more AC-130J Ghost riders will be coming to Afghanistan in the near future. Because of ongoing evaluations, it is expected that the two that are now situated in Afghanistan will be relieved shortly, to return to their home base at Hurlburt Field (FL). It is also an option that they will be relieved by the AC-130W Stinger II version. On 2 April 2019, Scramble Magazine Facebook News (SFN) wrote: AC-130J Ghost rider setbacks will keep AC-130W Stinger IIs within the USAF's operational inventory for some time longer.

On 25 October 2019, six F-35A Lightning IIs from the 4th Fighter Squadron 'Fightin' Fuijins' transited Morón Air Base in the south of Spain back to their homebase Hill AFB (UT). The 4th FS (Expeditionary) had been deployed under the 380th Air Expeditionary Wing command at Al Dhafra Air Base (United Arab Emirates) since mid-April. The F-35A Lightning IIs came back from their deployment to the Middle East as "TABOR41-46". Back in April, the 4th FS sent a dozen F-35As to the Middle East as what would become their first ever deployment to that theater of operations. On 30 April 2019, the 4th FS conducted an air strike at Wadi Ashai (Iraq), in support of Combined Joint Task Force-Operation Inherent Resolve (CJTF-OIR). This air strike marked the USAF's first F-35A combat mission. At this moment it is unknown

to Scramble Magazine if all twelve have left the Middle East back to the Continental United States (CONUS). The following HL coded Lightnings were seen at Morón on 25 October 2019, accompanied by 6th AMW KC-135R 61-0323 with callsign 'Blue 92': 15-5163, 15-5165, 15-5176, 15-5184 as '4FS' flagship, 15-5192 and 15-5196.

Last month saw multiple fighter aircraft transiting air bases in the south of Spain. Either going to the Middle East, or coming from the Middle East, the USAF is using the air bases in Spain quite frequently. For unknown reasons, the USAF nowadays tend to use the air bases (and also RAF Lakenheath, UK) for transiting to the Middle East, (North) Africa and Afghanistan more often than, for instance, Lajes airbase on the Azores (Portugal). Eighteen F-35A Lightning IIs from Hill AFB (UT) were seen transiting Morón Air Base in the south of Spain, going to the Middle East, presumably Al Dhafra airbase (United Arab Emirates). Previously, 388th Fighter Wing (and associated reserve 419th Fighter Wing) deployments consisted of mainly one squadron at a time. Quite notably, this seems not to be the case this time, as a mix of aircraft of all Hill squadrons is involved. As Daesh (Islamic State) has been severely diminished in the Middle East, and Afghanistan is well within reach from Al Dhafra, it is expected that this deployment is merely meant as a deterrence for Iran. On 14 November 2019, the following dozen HL-coded F-35As were noted in landing order:

TABOR71-76: 15-5134 34th FS, 15-5162 34th FS, 15-5175 4th FS, 15-5166 4th FS, 15-5170 34th FS, 15-5143 4th FS.

TABOR81-86: 15-5172 34th FS, 15-5201 421th FS, 15-5173 34th FS, 15-5202 421th FS, 15-5199 421th FS, 15-5188 as '388OG' flagship.

A day later, on 15 November 2019, the following HL-coded F-35As were noted as 'TABOR 91-96', landing in the following order: 15-5200 as '421FS' flagship, 15-5195, 15-5203, 15-5183, 15-5136 and 15-5131 (the squadrons of the last five have to be confirmed). Returning from a deployment to the Middle East on 15 November, six SJ-coded F-15E Strike Eagles (a mix

of 335th and 336th Fighter Squadrons), were seen transiting Rota Naval Air Base back to the Continental United States (CONUS). During mid-October, the Seymour Johnson AFB (NC) aircraft had already been augmented at Al Dhafra airbase (United Arab Emirates) by a dozen F-15Es from Lakenheath's 494th Fighter Squadron. The following SJ Strike Eagles were noted at Rota: 87-0174, 87-0206, 88-1708, 89-0492, 89-0496 and 89-0498. (it is unknown to Scramble at this time if more aircraft are/were involved).

On 5 and 6 November 2019, twelve Wisconsin and Colorado Air National Guard F-16C Fighting Falcons were seen transiting Morón air base (Spain) back to the Continental United States (CONUS). Strikingly, the above mentioned F-16s were recently relieved at Bagram air base (Afghanistan) by eighteen 79th Fighter Squadron 'SW' coded Fighting Falcons - see Scramble Facebook News 22 October 2019. The addition of another six aircraft, under command of the 455th Air Expeditionary Wing at Bagram, in support of Operation Freedom's Sentinel (OFS), is possibly part of an effort to support more troops on the ground during upcoming operations. The following 'WI' coded (Wisconsin) 176th FS and 'CO' coded (Colorado) 120th FS F-16Cs were noted during arrival at Morón:

On 5 November as Mazda 81-86:

86-0317/WI, 86-0339/CO, 86-0358/CO, 87-0241/WI, 87-0262/WI and 87-0298/WI.

On 6 November as Mazda 91-96:

87-0260/WI, 87-0261/WI, 87-0266/WI, 87-0345/WI, 87-0348/WI and 88-0401/CO.

On both 6 and 7 November 2019, a brand-new HH-60W Combat Rescue Helicopter arrived at Eglin AFB (FL), their new home with the 413th Flight Test Squadron (FLTS). They will be used in the development test programme. The HH-60Ws flew in from Sikorsky's Stratford facility (CT) and will be tested at Eglin. These two are the impulse for the USAF to purchase a total of 113 Whiskeys that will eventually replace the USAF's HH-60G Pave Hawk fleet. The USAF already purchased ten Lot 1 HH-60Ws within the FY18 budget. It is expected to buy an



Eric Tammer captured a rather busy and full apron at Base Aérea de Gando, the military side of Gran Canaria Airport. In the front of his camera we see some Spanish Hornets and behind are multiple Spanish Tifóns. Further back are Turkish Vipers and American Eagles visible. Next month we will provide a full report. (28 October 2019)



Soon this sight will be history. The Phantoms of the 301 Hikotai, including F-4EJ Kai 87-8415, will be retired from operational service. (Hiyakuri, 12 November 2019, Hans Jacobs)

additional twelve Lot 2 Whiskeys within FY19. These will be delivered in 2020. The Initial Operational Test and Evaluation programme is expected to start at Moody AFB (GA) mid fiscal year 2021. The base will be the first operational home for the new helicopter.

The US Air Force's Boeing X-37B Orbital Test Vehicle (OTV) Mission 5 successfully landed at NASA's Kennedy Space Center Shuttle Landing Facility on 27 October 2019.

The very secretive X-37B OTV is an experimental test programme to demonstrate technologies for a reliable, reusable space vehicle technologies, unmanned space test platform for the USAF. The USAF X-37 launched from Cape Canaveral on 17 September 2017, spent 780 days in space and conducted a classified mission. X-37B OTV mission 4 took 718 days, so with this fifth mission a new record is set. The X-37s (one X-37A active prototype and two X-37Bs) are owned by the Air Force Rapid Capabilities Office. They plan to have the next X-37 mission in 2020.

#### United States Army (AR)

B/1-52nd AVN	Ladd AAF, Fort Wainwright (AK)
B(-)/1-111th AVN	MS ARNG, AASF Meridian RAP, Key Field (MS)
Det.1 C/1-114th AVN	LA ARNG, AASF Esler RAP (LA)
C(-)/2-135th AVN	NE ARNG, AASF Lincoln MAP (NE)
1-149th AVN	TX ARNG, AASF Ellington Field (TX)
1-211th AVN	UT ARNG, AASF South Valley RAP (UT)
D(-)/1-376th AVN	NE ARNG, AASF Grand Island Central Nebraska RAP

#### C-147A

With reference to last month's new item about the new Dash 8 for the Golden Knight, we can now report that it seems to have been accepted. After modifications by the Sierra Nevada Company, it was flown to Huntsville (AL) for acceptance trials on 1 August 2019. It was first reported with the famous US Army parachute team in October 2019. As previously reported, the aircraft in question is 16-01610 (c/n 489, ex N489SN).

#### CH-47F

10-08083	B(-)/1-111th AVN, ex B/1-52nd AVN	<b>M8083</b>	oct19
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#### UH-60A+

86-24531	C(-)/2-135th AVN, ex nb	<b>70-1035</b>	oct19
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#### AH-64D

02-05313	1-149th AVN	ex 1-211th AVN	<b>PVD313</b>	oct19
04-05433	1-149th AVN	ex nb	<b>PVD433</b>	oct19
05-05485	1-149th AVN	ex nb	<b>PVD485</b>	oct19

#### UH-72A

07-72037	D(-)/1-376th AVN, ex Det.1 C/1-114th	<b>9178</b>	mar19
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#### United States Navy

The US Navy's C-40A Clipper (Boeing 737-700C) fleet has undergone some major changes in the last few months. First: The 16th Clipper was delivered in June 2019 and the 17th on 26 September 2019. The latter was assigned to US Naval Reserve Fleet Logistics Support Squadron (VR) 57 "Conquistadors". Second: The US Navy also added a sixth C-40A squadron to its inventory, VR-51 "Windjammers" at MCB Kaneohe Bay (HI). The unit received two C-40As from the fleet (one was a former VR-57 aircraft). The squadron, established in September 2019, will be fully operational by late October 2019. And third: The US Navy completed its current planned Clipper procurement programme. So the Navy Unique Fleet Essential Airlift (NUFEA) fleet can be tasked for logistics support aircraft as an integral part of every type of maritime mission, from humanitarian assistance to long-range, high priority deliveries. Over the past year, the C-40 fleet has maintained a 90% readiness rate and logged 24,374 hours of flight time, completed 1,555 missions, transported 95,746 passengers and 20 million tons of cargo. The Air Order of Battle of the six squadrons, part of the Commander, Fleet Logistic Support Wing (COMFLELOGSUPPWING) is as follows:

- Kaneohe Bay MCAF (HI)  
VR-51 Windjammers (RG)-xxx
- NAS Oceana (VA)  
VR-56 Globemasters JU-xxx
- NAS North Island (CA)  
VR-57 Conquistadors (RX)-xxx
- NAS Jacksonville (FL)  
VR-58 Sun Seekers JV-xxx
- Fort Worth NAS JRB/Carswell Field (TX)  
VR-59 Lonestar Express RY-xxx
- NAS Whidbey Island (WA)  
VR-61 Islanders RS-xxx

And the seventeen aircraft in order of BuNo, construction number/line number, unit and last-noted. Updates are welcome!

165829, 29979/496, VR-58, jun19, unit unconfirmed
165830, 29980/568, VR-59, mar18, unit unconfirmed
165831, 30200/651, VR-59, jan16
165832, 30781/742, VR-61, mar19
165833, 32597/1069, VR-59, mar19
165834, 32598/1174, VR-58, mar19

165835, 33826/1548, VR-57, aug19  
165836, 33836/1604, VR-57, apr19, unit unconfirmed  
166693, 34304/1849, VR-51, jun19  
166694, 40573/3346, VR-56, mar19  
166695, 40574/3413, VR-61, sep19  
166696, 40577/3687, VR-56, mar19  
168980, 43827/5000, VR-61, nov18  
168981, 43828/5158, VR-61, jun19  
169036, 60329/5982, VR-61, jul19  
169792, 65395/7477, VR-51, sep19  
169793, 65396/7587, VR-57, sep19

There is always a C-40A deployed to US Central Command, US European Command and US Pacific Command to meet mission requirements.

#### United States Navy unit news

P-8A Poseidon update: Patrol Squadron (VP) 10 Red Lancers ('LD-xxx') has been deployed to Misawa (Japan) since September 2019. The squadron relieved VP-8 Tigers ('LC-xxx') at this location. VP-4 Skinny Dragons ('YD-xxx') can be found in Sigonella (Italy) since September 2019. The squadron relieved VP-9 Golden Eagles ('PD-xxx') at this southern European location. VP-45 Pelicans ('LN-xxx') spreaded its deployment over Kadena (Japan) and Bahrain from September 2019, relieving the final active P-3C Orion squadron deployment (VP-46 Grey Knights ('RC-xxx')). VP-45 also swapped places with VP-5 Mad Foxes ('LA-xxx'). VP-46 received its first Poseidon on 11 September 2019.

#### Commander, Naval Air Force U.S. Atlantic Fleet (ComNavAirLant)

On 2 October 2019, VFA-106's final F/A-18C Hornet, with modex 300, made its official final active-duty flight from home base NAS Oceana (VA). Strike Fighter Squadron (VFA) 106 Gladiators was once based at NAS Cecil Field (FL). The aircraft involved, BuNo 163506/AD-300, completed its first US Navy acceptance check flight on 14 October 1988. Coincidentally, Lt. Andrew Jalali, who piloted the Hornet for its final active-duty flight at Oceana, was also born in 1988. Since its introduction with VFA-106 at Cecil, we listed BuNo 163506 in our US Navy database with VFA-82, VFA-83 and VFA-86 service. It has returned to the Gladiators in July 2005, which is the East Coast Fleet Replacement Squadron. F/A-18Cs now can be found with the US Navy Flight Demonstration Squadron Blue Angels, Air Test and Evaluation Squadron (VX) 23 and VX-31, VFC-12 as well as with the reserves of VFA-204. The aircraft took off from NAS Oceana accompanied by three

F/A-18F Super Hornets for a one-and-a-half hour flight. After the flight it returned to Oceana for its official withdrawal. It will be stripped of all its usable parts, and finally be scrapped. During the last year, VFA-106 has transferred over fifty of its F/A-18C Hornets to various US Navy Reserve and US Marine aviation commands. Others were placed in storage for possible future use, or for future sales.

#### Commander, Naval Air Force U.S. Pacific Fleet (ComNavAirPac)

A US Navy Sundown deployment ended on 11 October 2019, as the final active-duty squadron operating the P-3C Orion, returned home. Patrol Squadron (VP) 40 Fighting Marlins ('QE-xxx') returned home at NAS Whidbey Island (WA) and will begin the transition to the P-8A Poseidon soon. The VP-40 deployment started in April 2019, when the squadron took over the tasks of VP-46 Grey Knights at Kadena air base (Japan) and Sheik Isa air base (Bahrain). The Fighting Marlins deployed to both locations at the same time for a six month period. The active fleet VP-community of the mighty Lockheed P-3C Orion has now almost completed the transition to the Boeing P-8A Poseidon, leaving only a few Orions left with Fleet Replacement Squadron VP-30 The Pro's Nest at NAS Jacksonville (FL). The US Naval Reserves are still operating the P-3C with VP-62 Broadarrows ('LT-xxx') at Jacksonville and VP-69 Totems ('PJ-xxx') at Whidbey. Special Project Squadron (VPU) 2 Wizards ('(SP)-xxx'), operating the secretive P-3SPA at MCB Hawaii (HI), is planned to stand down in FY19. Of course we still have one or two secretive P-3Cs operating with Dallas BUPERS.

#### Carrier News

The Lincoln Carrier Strike Group will remain on station in the Middle East while its relief carrier is still undergoing unexpected repairs on the US East Coast. USS Abraham Lincoln (CVN-72) left homeport on 1 April 2019, and is now just over eight months on deployment and is facing another extension so it could stay on station in the North Arabian Sea and the Gulf of Oman a little longer, so no "carrier-gap" is created. Extending a carrier strike group deployment is not unprecedented. But, the US Navy had wanted to get in the practice of using an Optimized Fleet Response Plan (OFRP) construct, built on a 36-month cycle involving a seven-month deployment and about 29-months of training, maintenance and surge capacity. Earlier this month, it was announced that the US was sending additional troops to Saudi Arabia at the request of US Central Command following the suspected of



The first military customer, not counting Switzerland, for the Pilatus PC-24 is Botswana. Serial DS-1 has construction number 114 and was photographed by Marco Moormann at Lanseria, South Africa. (20 September 2019)



Chinook CH-47J 27-4488 is part of the Misawa Her Kuy, a rescue asset on the north Japanese Air Base. (Misawa, 11 November 2019, Hans Jacobs)

attack by Iranian forces on Saudi oil facilities. On 11 October 2019, the Pentagon announced the following forces would move to Saudi Arabia: two fighter squadrons, one Air Expeditionary Wing (AEW), two Patriot batteries and one Terminal High Altitude Area Defense system (THAAD).

Number 1 relief carrier, USS I (CVN-75), is currently pier-side undergoing repairs for extensive electrical problems that are likely to extend at least into November. When *Lincoln* will leave station, she will head to its new homeport at NS San Diego (CA), as part of a previously announced three-carrier homeport swap. The current locations of the eleven operational US Navy carriers and its Carrier Air Wings are as follows.

- USS *Nimitz* (CVN-68) is homeport in Kitsap, Bremerton (WA) after a few days at sea early October 2019. Carrier Air Wing SEVENTEEN "NA" is assigned.

- USS *Dwight D. Eisenhower* (CVN-69) was operating off the East Coast of the US performing a Tailored Ship's Training Availability and Final Evaluation Problem. This is an early step in the work-up for an upcoming deployment designed to ready the ship and crew for integration into a carrier strike group. Carrier Air Wing THREE "AC" is assigned.

- USS *Carl Vinson* (CVN-70), entered dry-dock at Puget Sound naval ship yard in February 2019. The *Ike* is undergoing a 15-month Drydocking Planned Incremental Availability (DPIA). Carrier Air Wing TWO "NE" is assigned.

- USS *Theodore Roosevelt* (CVN-71), homeported in NS North Island (CA) since August 2019. Carrier Air Wing ELEVEN "NH" is assigned.

- USS *Abraham Lincoln* (CVN-72), see the report above. Carrier Air Wing SEVEN "AG" is assigned.

- USS *George Washington* (CVN-73) almost completed mid-life refueling and complex overhaul (RCOH) at Newport News Shipbuilding and stood out the drydock 30 September.

- USS *John C. Stennis* (CVN-74) finished a nearly eight-month deployment in May by shifting homeports to NS Norfolk (VA) from Bremerton (WA). *Stennis* is next in line for its RCOH and is already undergoing early work with Newport News Shipbuilding teams.

- USS *Harry S. Truman* (CVN-75), see the report above. Carrier Air Wing ONE "AB" is assigned.

- USS *Ronald Reagan* (CVN-76), forward deployed to Yokosuka (Japan). The ship conduct Carrier Qualifications mid-September 2019, and sailed the waters south of Japan, the Philippine Sea and the south Chinese Sea, It visited Changi naval base in Singapore and is currently again in the South Chinese Sea. Carrier Air Wing FIFE "NF" is assigned.

- USS *George H. W. Bush* (CVN-77) entered what was to be a 10-month maintenance availability at NS Norfolk that is now expected to last 28 months. Carrier Air Wing EIGHT "AJ" is assigned.

- USS *Gerald R. Ford* (CVN-78) is in a post-shakedown availability that has been extended multiple times as crewmembers and shipyard workers are trying to fix a problem with the ship's propulsion system and certify the carrier's weapons elevators. If left this week its port for sea-trails.

Two carriers are under construction, USS *John F. Kennedy* (CVN-79) and USS *Enterprise* (CVN-80) at Newport News Naval Shipyard (VA)

#### Carrier news

For the first time since May 2019, USS *Abraham Lincoln* (CVN-72) moved into the Persian Gulf. The *Abe* departed homeport NB Norfolk (VA) on 1 April 2019 and hurried to the Middle East after the, then, National Security Advisor John Bolton called for an increased presence to counter Iranian aggression. As tensions were too high at the time, the carrier stayed out of the Gulf and operated in a tight box in the North Arabian Sea and the Gulf of Oman. On 19 November 2019, the CVN-72 Carrier Strike Group and its Carrier Air Wing SEVEN ('AG') transited through the narrow Street of Hormuz and entered the Persian Gulf. Apparently, the transit could be an indication that tensions with Iran have subsided to the point where US officials felt it was safe enough for the carrier to transit the Strait. The carrier will most probably visit Bahrain on short notice, ahead of its return to the USA. *Lincoln* will – once relieved by USS *Harry S. Truman* (CVN-75) – transit through the Pacific Ocean to its new homeport of San Diego (CA). *Truman* and its Carrier Air Wing ONE ('AB') is in final preparation for their deployment after a delay of several months. CVW-1 completed carrier qualifications aboard USS *John C. Stennis* (CVN-74). In the meantime, several aircraft of CVW-7 (E-2D *Hawkeye*, F/A-18E/F *Super Hornet* and MH-60S) are attending the current Dubai air show (UAE).

USS *Wasp* (LHD-1) arrived at Naval Station Norfolk on 18 November 2019. *Wasp* completed a homeport shift after being

forward-deployed to Sasebo (Japan) for nearly two years. In Japan, *Wasp* will be replaced by USS *America* (LHA-6) in about a month. USS *Wasp* hosted the 31st MEU Marine Expeditionary Unit during its sea period when forward-deployed. The MEU disembarked the ship mid-August 2019.

- VMM-265 Dragons, MV-22B, EP-0x, EP-1x
- HMH-462/Det. Heavy Haulers, CH-53E, EP-2x
- HMLA-169 Vipers, UH-1Y, AH-1Z, EP-3x
- VMFA-121 Green Knights, F-35B, VK-01, 05, 06, 08, 10, 13
- HSC-25/Det.6 Island Knights, MH-60S, RB-01, 05, 07

FRCE = Fleet Readiness Center East, Cherry Point (NC)  
 FRCMA = Fleet Readiness Center Mid Atlantic, Oceana (VA)  
 FRCSW = Fleet Readiness Center South West, North Island (CA)  
 KNHK = Patuxent River (MD)  
 KNQI = Kingsville (TX)

<b>C-20D</b>				
163691/691	scrapped	w/o 23oct14	<b>480</b>	sep19
<b>E-2D</b>				
169073/662	VAW-120	f/n	<b>AA39?</b>	sep19
<b>F/A-18D</b>				
164014	VFC-12	ex AD-434/VFA-106	<b>898/D041</b>	oct19
<b>F/A-18E</b>				
166423/AC-201	VFA-83	ex AD-113/VFA-106	<b>E068</b>	oct19
166434/AC-204	VFA-83	ex AD-132/VFA-106	<b>E079</b>	oct19
166606/AC-200	VFA-83	ex AD-127/VFA-106	<b>E102</b>	oct19
<b>F/A-18F</b>				
166799/AJ-203	VFA-213	ex AB-201/VFA-211	<b>F172</b>	sep19
166982/NA-203	VFA-94	ex NH-106/VFA-154	<b>F257</b>	mar18
<b>MH-60R</b>				
166597/HK-030	HSM-40	ex HR-5.. /SM-48	<b>70-34..</b>	sep19
167047/HQ-770	HSM-46	ex HQ-471	<b>70-38..</b>	oct19
<b>MH-60S</b>				
166293/SA-02	HSC-3	ex SA-30	<b>70-27..</b>	sep19
166351/AB-614	HSC-11	ex HU-725/HSC-2	<b>70-294.</b>	sep19
166353/HU-726	HSC-2	ex SA-19/HSC-3	<b>70-29..</b>	sep19
167820/NE-612	HSC-4	ex SA-16/HSC-3	<b>70-30..</b>	sep19
167868/NE-611	HSC-4	ex HW-23/HSC-26	<b>70-....</b>	feb19
168558/HW-30	HSC-26	ex AG-617/HSC-5	<b>70-4...</b>	sep19
<b>P-3C AIP+</b>				
159326/326	VQ-1	ex RC-326/VP-46	<b>5616</b>	oct19
162776/776	Pensacola	NMNA museum	<b>5802</b>	oct19
<b>P-8A</b>				
168997/PD-997	VP-9	ex 997/VP-47	<b>44942/5587</b>	oct19
169002/002	nmks	ex PD-002/VP-9	<b>44943/5740</b>	oct19

169335/335	BUPERS Dallas	ex 335/VP-30	<b>63183/6492</b>	oct19
169551/551	VP-30	del 04nov19	<b>64081/7497</b>	nov19
169552/552	VP-30	del 18nov19	<b>64082/7567</b>	nov19

United States Marines Corps

FRCE = Fleet Readiness Center East, Cherry Point (NC)  
 FRCSW = Fleet Readiness Center South West, North Island (CA)  
 KNHK = Patuxent River (MD)  
 LMTAS = Lockheed Martin Tactical Aircraft Systems, Fort Worth (TX)

<b>KC-130J</b>				
169535/535	Lockheed	f/n	<b>382-58..</b>	sep19
<b>F-35B</b>				
169621	LMTAS	f/n	<b>BF-85</b>	oct19
<b>AH-1W</b>				
164578/HF-74	pres Pensacola	ex HF-74/HLMA-269	<b>29160</b>	nov19
<b>UH-1Y</b>				
168501/SN-06	HMLA-169	ex UV-06/HMLA-267	<b>55165</b>	mar19
168784/SN-02	HMLA-169	ex EP-33/VMM-265	<b>55181</b>	jan19
168947/YM-42	VMM-365	ex TV-09/HMLA-167	<b>55199</b>	oct19
169283/WR-47	HMLA-773	f/n	<b>55242</b>	oct19
<b>AH-1Z</b>				
168528/EP-41	HMLA-		<b>59207</b>	nov19
168806/EP-42	VMM-265	ex UV-42/HMLA-267	<b>59214</b>	oct19
169272/SE-40	HMLA-469	f/n	<b>592..</b>	oct19
169513	Bell	f/n	<b>592..</b>	nov19
<b>CH-53E</b>				
161988/YZ-2.	VMM-365	ex CJ-04/HMH-461	<b>65-465</b>	oct19
163086/MV-21	VMX-1	ex HX-21	<b>65-580</b>	nov19
<b>MH-53E</b>				
162508/AN-435	HM-12	ex TB-12/HM-15	<b>65-520</b>	sep19
<b>MV-22B</b>				
167908/ES-12	VMM-266	ex YS-12/VMM-162	<b>D0119</b>	sep19
168346/EG-06	VMM-263	ex ES-01/VMM-266	<b>D0249</b>	sep19
168347/MQ-15	VMM-774	SPMAGTF-CR A	<b>D0250?</b>	nov19
168349/MQ-09	VMM-774	ex EM-09/VMM-261	<b>D0252?</b>	nov19
168610/EP-04	VMM-265	ex YP-04/VMM-163	<b>D0265?</b>	oct19
168618/MQ-08	VMM-774	SPMAGTF-CR A	<b>D0273?</b>	nov19
168630/MQ-14	VMM-774	SPMAGTF-CR A	<b>D0285?</b>	nov19
168636/ES-00	VMM-266	ex SPMAGTF-CR	<b>D0291?</b>	sep19
168685	VMM-266	f/n	<b>D03xx</b>	sep19

Credits

Danny Bonny, Ian Carroll, Patrick Dirksen, Edwin de Greeuw, Joris Heeren, Stephan Jonge, Andy Marden, Daniele Mat-tiuzzo, Jorge Merino, David Moore, Jeff Rankin, Frank van Waardenburg



Our Pilatus specialist, Stephan Widmer, was able to capture the last three PC-21s for the Royal Australian Air Force (c/n 280, HB-HWU/A54-047, c/n 281 HB-HWV/A54-048 and pictured c/n 282, HB-HWW/A54-049) in the pouring rain. They were leaving Stans for the ferry flight to Australia on 15 November 2019.



A nice formation take-off of two camo RoCAF Tigers from Taitung, pictured by Jochem Manders, on 7 October 2019. In the front is F-5E 5272/80874 and in the back 5377/80884. Both belong to TT&DC, or the Tactical Training & Development Center.



Another formation take-off of two grey coloured Tigers; 5274/91717 and 5412/30138. Hopefully both pilots know where they are going, as they are not looking to the front but to each other! (Taitung, 7 October 2019, Jochem Manders)



Hsinchu was visited on 6 October (again by Jochem Manders) and that is where two Mirage 2000Ei's performed a formation take-off (they do like them in Taiwan!). Situational awareness by these flyboys was a lot better, as they looked ahead! Seen are Mirage 2000 2005/E105 and 2059/D109 (which is a dual seater).

# Showreports



Various military and semi-military aircraft were invited to this years Antwerp Liberation Days, among them B-17G G-BEDF, flying as 124485/A-DF. When not flying, the aircraft can be admired at the Duxford museum. (8 September 2019, Walter van Brempt)

## Antwerp (Belgium)

Liberation Days	6-8 September 2019		
CH11	C-130H	20sq	06-08
FA72	F-16A	2w	07*
FA124	F-16A	10w	07*
ST02, ST16, ST31	SF260M+	CC Air	07, 07
ST34, ST35	SF260M+	CC Air	07, 07
G-BEDF	B-17G	B17 Preservation	06-08,13
G-BPIV	Bolingbroke Mk.IV	Blenheim (Duxford)	06-08
N1328B	T-28B	L. Hellings	07,08
NC14999	L-12A	L. Hellings	07,08
OO-DAF	AT-16ND	E. Vormezeele	07
OO-EBU	PA-28-161	Vliegclub Ursel	08
OO-SDJ	Extra 330SC	Stijn De Jaeghere	08*
OO-VCU, OO-VMC	PA-28-161	Vliegclub Ursel	08
OO-VMY	PA-28-161	Vliegclub Ursel	08
PH-ENP	CeU206G	Para Club Hoevenen	08
PH-OUQ	Spitfire LF1Xc	RNLAF Historic Flight	08

This event took place to commemorate the liberation of Antwerp in 1944. In 2019 it has been 75 years since Antwerp was liberated from its wartime occupation. The city of Antwerp wanted to bring this to the attention with the "Bevrijdingsdagen" ('Liberation Days').

Credit: Walter Van Brempt.

## Halim (Indonesia)

74th National Armed Forces Day (Ke-74 TNI) 5 October 2019

### TNI-AU:

PK-PJJ	BAe146-RJ85	SkU45/Pelita
AI-7301	B737-2X9	SkU5
AI-7304	B737-2Q8	SkU5
A-1336	C-130H	SkU32
A-1319, A-1320	C-130H-30	SkU31
A-2904	CN295M	SkU2
A-2909 +2	CN295M	SkU2
TT-3105, TT-3106, TT-3110	EMB314	SkU21
TT-3113, TT-3114, TT-3115	EMB314	SkU21
TS-1608	F-16A	SkU3
TS-1625	F-16C-52ID	SkU3
TS-1627	F-16C-52ID	SkU16
TS-1628, TS-1629	F-16C-52ID	SkU16
TS-1631	F-16C-52ID	SkU16
TS-1632	F-16C-52ID	SkU16
TS-1634	F-16C-52ID	SkU16
TS-1636, TS-1638	F-16C-52ID	SkU3
TS-1641	F-16C-52ID	SkU3

TS-1622	F-16D-52ID	SkU16
TS-1623	F-16D-52ID	SkU3
TS-1624	F-16D-52ID	SkU16
A-2804	F28-4000	SkU45
HT-7205, HT-7206	H225M	SkU8
TL-0101	Hawk Mk109	SkU1
TL-0111	Hawk Mk109	SkU12
TT-0204, TT-0209, TT-0211	Hawk Mk209	SkU12
TT-0224?	Hawk Mk209	SkU1
TT-0228, TT-0230, TT-0235	Hawk Mk209	SkU1
LL-0104, LL-0109, LL-0110	KT-1B	SkaDik102
LL-0113, LL-0114, LL-0115	KT-1B	SkaDik102
LL-0116, LL-0117	KT-1B	SkaDik102
A-1314	L-100-30	SkU17
A-1326	L-100-30	SkU31
HT-3309	SA330J	SkU8
HT-3314	NSA330L	SkU8
TS-2701	Su-27SK	SkU11
TS-3001, TS-3002	Su-30MK2	SkU11
TS-3006, TS-3008	Su-30MK2	SkU11
TS-3009, TS-3010	Su-30MK2	SkU11
TS-3011	Su-30MK2	SkU11
TT-5001, TT-5002	T-50i	SkU15
TT-5014, TT-5016	T-50i	SkU15

Most of these participated in the aerial parade, and this was not all. Six EC120 remained unidentified as did various (Super) Puma/Cougars. These were bearing flags at the opening of the proceedings. Two CH-4B drones, two or three more F-16s, and more T-50s also remained unidentified.

### TNI-AD:

HS-7210	AH-64E	SkUAD11
HS-7216 +1	AH-64E	SkUAD11
HS-7206	AS555AP	SkUAD13
HS-7207	AS555AP	SkUAD12
HA-5120	Bell 412EP	SkUAD1
HA-5162, HA-5163	Bell 412EP	SkUAD21
HA-5165	Bell 412EP	SkUAD12
HA-5174	Bell 412EP	
HA-5182	Bell 412EP	SkUAD12
HS-7152, HS-7153	Mi-35P	SkUAD31
HS-7154 +1	Mi-35P	SkUAD31

Even more difficult to identify were the army birds. Luckily, they flew from Pondok Cabe where most were identified during one of the rehearsals. Further participants were two NB0105s and one Mi-17V-5.

### TNI-AL:

HS-4204, HS-4205	AS565MBe	SkU400
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HS-4207, HS-4210	AS565MBe	SKU400
HS-4211	AS565MBe	SKU400
T-2501, T-2502, T-2504	Beech G36	SKU200
T-2505, T-2506, T-2508	Beech G36	SKU200
P-8301, P-8305	CN235-220MPA	SKU800
HU-4201 +3	NB412S	SKU400
U-6206, U-6207, U-6208	NC212-200M	SKU600
U-6211, U-6215, U-6216	NC212-200M	SKU600

These also operated from Pondok Cabe and may include some air spares.

### JGSDF Camp Metabaru (Japan)

Air Festival 6 October 2019

#### Platform north:

41825/WH, 41836/WH	UH-1J	Seibu Homen Herikopotatai
43125/WH	UH-60JA	Seibu Homen Herikopotatai

#### Platform south:

73459/IIIATH, 73462/IIIATH	AH-1S	3 Taisensha Herikopotatai
73476/VATH	AH-1S	5 Taisensha Herikopotatai
73477/IIIATH	AH-1S	3 Taisensha Herikopotatai
41809/WH, 41875/WH	UH-1J	Seibu Homen Herikopotatai
41928/IV, 41930/IV	UH-1J	4 Hikotai
31307/IV, 31310/IV	OH-6D	4 Hikotai
52952/WH	CH-47J	Seibu Homen Herikopotatai
52956/HGPIII	CH-47J	103 Hikotai
43108/nn, 43114/nn	UH-60JA	Seibu Homen Herikopotatai?

#### Hangar A:

41.../nn, 41.../nn	UH-1J	stored
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#### Hangar B:

326../nn, 326../nn	OH-1	under covers, stored
32632/IIIATH	OH-1	3 Taisensha Herikopotatai
41926/nn	UH-1J	

#### Hangar C:

43131/nn, 43132/nn	UH-60JA	Seibu Homen Herikopotatai?
43135/nn, 43140/nn	UH-60JA	Seibu Homen Herikopotatai?

#### Hangar D:

73431/IVATH	AH-1S	4 Taisensha Herikopotatai
73437/IIIATH	AH-1S	3 Taisensha Herikopotatai

Photographs on the net show some of the above helicopters flying. The flying display had at least two Cobras, two UH-1Js, both Chinooks and one UH-60JA.

### Ashiya (Japan)

Airshow

13 October 2019

#### Static:

75-1076	C-130H	401 Hikotai
67-4496	CH-47J	Koku Kyunandan
56-5925	T-7	12 Hiko Kyoikudan
21-5062	T-400	41 Kyoiku Hikotai
73437/IIIATH	AH-1S	3 Taisensha Herikopotatai

#### Flightline north:

78-4603, 88-4607	UH-60J II	Koku Kyunandan
82-3009	U-125A	Koku Kyunandan

#### Flightline south:

96-5616, 06-5647, 06-5649	T-4	13 Hiko Kyoikudan
16-5657, 26-5677	T-4	13 Hiko Kyoikudan

#### In hangar:

96-5614, 06-5636, 26-5678	T-4	13 Hiko Kyoikudan
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#### 13 FTW T-4s stored on platform:

86-5607, 06-5638, 06-5639, 06-5640, 06-5644, 16-5665, 26-5679, 56-5735, 06-5788, 26-5809 +1

#### Flying only:

33-8523	F-2A	6 Hikotai, spec. c/s
57-6907	RF-4E Kai	501 Hikotai
32-8059	F-15DJ	23 Hikotai
32-8826, 52-8852, 72-8885	F-15J	23 Hikotai
26-5902, 36-5905	T-7	12 Hiko Kyoikudan
66-5937, 76-5945	T-7	12 Hiko Kyoikudan

Also all preserved aircraft and helicopters were noted.

### Seongnam (South Korea)

ADEX 2019

14-20 October 2019

#### Static:

1718	BAe748-2A/248	296 STS
95-178	C-130H	15 TATW
45-750	C-130J-30	251 TAS
30-088	CN235-100M	nn
60-507	F-4E	10 FW/153 FS
50-459, 50-460	F-5E	
61-652	KF-5E	10 FW
02-004, 08-053	F-15K	11 FW
86-589	KF-16C	no mks
19-007	F-35A	11 FW/151 FS



During the Antwerp Liberation Days several Belgian Air Component formations overflew Deurne airport. This formation has C-130H CH11 and F-16As FA72 and FA124. (7 September 2019, Walter van Brempt)



<u>Elsewhere/flying 20oct:</u> 55-036	C-130J-30	15 TATW
<u>Flying only 14oct:</u>		
<b>1st wave</b> 40-098	CN 235M-220M	258 TATS
05-001, 06-005	KA-1	237 TCS
06-006, 06-007	KA-1	237 TCS
<b>2nd wave</b> 05-185	C-130H	251 TATS
06-010, 06-013	KA-1	237 TCS
06-018, 06-019	KA-1	237 TCS
<b>3rd wave</b> 65-329	E-737	271 AEW&CS
93-057, 93-068	KF-16C-52	19 FW?
89-2020/OS, 90-0779/OS	F-16CM-50	36th FS
<b>4th wave</b> 18-001	KC-330	261ATS
02-007, 02-017	F-15K	11 FW
85-583, 87-653	F-16C-32	19 FW?
<b>5th wave</b> 08-041, 08-042, 08-047	F-15K	11 FW
08-049, 08-050	F-15K	11 FW
<b>6th wave</b> 92-006, 92-009, 93-098	KF-16C-52	20 FW
93-114, 93-115	KF-16D-52	20 FW
<b>7th wave</b> 14-019, 15-029	FA-50	202 FS?
15-032, 15-034	FA-50	202 FS?
<b>8th wave</b> 10-576, 10-588, 10-625	KF-5E	10 FW
10-602, 10-605	KF-5E	10 FW
<b>9th wave</b> 60-500, 60-504, 80-727	F-4E	10 FW/153 FS
80-738, 80-740	F-4E	10 FW/153 FS
<b>10th wave</b> 18-002, 19-008 +1	F-35A	17 FW/151 FS
<u>Flying only 15oct:</u>		
<b>Weather flight</b> 93-043	KF-16D-52	19 FW
<b>1st &amp; 2nd wave</b> cancelled		
<b>3rd wave</b> 65-329	E-737	271 AEW&CS
93-057, 93-068	KF-16C-52	19 FW?
89-2020/OS, 90-0779/OS	F-16CM-50	36th FS
<b>4th wave</b> 18-001	KC-330	261 ATS
02-007, 02-023, 02-031	F-15K	11 FW

85-583, 85-596, 87-660 F-16C-32 19 FW?

**5th wave**  
08-048, 08-049, 08-050 F-15K 11 FW  
08-051, 08-060 F-15K 11 FW

**6th wave**  
92-006, 92-026, 93-098 KF-16C-52 20 FW  
93-115, 93-120 KF-16D-52 20 FW

**7th wave**  
14-019, 15-020, 15-026 FA-50 202 FS?  
15-028, 15-036 FA-50 202 FS?

**8th wave**  
10-576, 10-588, 10-625 KF-5E 10 FW  
10-602, 10-605 KF-5E 10 FW

**9th wave**  
60-504, 60-506, 80-733 F-4E 10 FW/153 FS  
80-738, 80-740 F-4E 10 FW/153 FS

**10th wave**  
18-002, 18-005, 18-006 F-35A 17 FW/151 FS

Flying only 19oct (confirmed serials only):

**Weather flight**  
92-044 KF-16D-52 19 FW?

**4th wave**  
65-329 E-737 271 AEW&CS  
89-2020/OS, 90-0779/OS F-16CM-50 36th FS

**5th wave**  
08-041, 08-047, 08-049 F-15K 11 FW  
08-050, 08-060 F-15K 11 FW

**6th wave**  
92-00, 92-026, 92-028 KF-16C-52 20 FW  
93-115, 93-120 KF-16D-52 20 FW

**7th wave**  
14-019, 15-028, 15-031 FA-50 202 FS?

**9th wave**  
60-499, 60-506 F-4E 10 FW/153 FS  
80-738, 80-739 F-4E 10 FW/153 FS

Seoul International Aerospace and Defense Exhibition 2019 was held at Seoul airbase, Seongnam, from 15 to 20 October. The report above is mostly from 14 and 15 October, with some additions from 19 and 20 October. 14 October was a day for the media, during which there was also the rehearsal for the flypast on 15 and 19 October. On 15 October the opening ceremony with the flypast took place. The trade days were from 15 to 18 October. On 19 October the gates were open to the general public. On this day again there was a flypast, but this time it was spearheaded by a formation of fifteen KT-1s in '70' formation, signifying 70 years of Republic of Korea Air Force. Unfortunately there is no complete log of the formations on this day.



South Korean navy UH-60P 95-0509 was not part of the flying display but dropped off some navy officials during ADEX2019. (Seongnam, 15 October 2019, Paul van der Linden)



Suwon-based 153rd FS provided one of the many other formations during ADEX2019. The unit showed off five of its F-4Es out of its complement of around 25 operational Phantoms. Paul van der Linden took this shot at Seongnam on 15 October 2019.

### Changchun – Dafangshen (China)

Open Day 17-20 October 2019

#### Static:

-	GJ-2 (UAV)	PLAAF
02	JL-8	Red Falcon Display Team
1139	JL-9	Harbin FA/3rd Brigade
1323/33	HYJ-7	Harbin FA/2nd Brigade
1825	H-6A	Harbin FA/2nd Brigade
2516/56	JL-10	Shijiazhuang FA/1st Brigade
3256	Y-8	Xi'an FA/5th Brigade
4473	JJ-7A	AU FITB/3rd Regiment
4877/87	CJ-6A	AU FITB/3rd Regiment
6126	Z-9WZ	15th Airborne Army
6328	Z-10K	15th Airborne Army
10156	Y-9	4th Div/10th Regiment
11057/07	Y-20	4th Div/12th Regiment
30078	KJ-500	26th Div/76th Regiment
30672	KJ-200A	26th Div/77th Regiment
30872	Y-8T	26th Div/77th Regiment
41276	H-6K	36th Div/108th Regiment
64224	JH-7A	31st Brigade
67227	J-10B	61st Brigade
72200	J-8F	109th Brigade
B-0215	DA-40D	RuiXiang General Avn 19oct
B-10EV	DA-40D	Jilin Aviation Academy 19oct
B-10QS	SA60L	RuiXiang General Avn 19oct

#### Flightline/flying:

2510/50	JL-10	Shijiazhuang FA/1st Brigade
6120, 6122	Z-8KA	15th Airborne Army
6325	Z-10K	15th Airborne Army
11056/06	Y-20	4th Div/12th Regiment
70209, 70303	J-11BS	89th Brigade
01, 03, 04, 06, 07	JL-8	Red Falcon Display Team
08, 09, 10 + 2	JL-8	Red Falcon Display Team
12x	CJ-6A	PLAAF "70"-flight past* 01,
02, 03, 04, 06,	CJ-6A	Flying Wings Display Team
07, 08, 09	CJ-6A	Flying Wings Display Team
02, 03, 06	J-10A	Ba Yi
07, 09, 10	J-10S	Ba Yi

#### Flying from elsewhere (17/18 October only):

70290	J-16	98th Brigade
78232	J-20	FTTB/172nd Brigade
78233	J-20	FTTB/172nd Brigade

The 70-years flypast was performed on 16 and 17 October only.

Every year the Aviation University Flight Instructor Training Base of the PLAAF opens its doors to show to the youngsters how interesting it is to join the Air Force. At the same time the show has evolved into a proper air show which also attracts

ever more active military aircraft, for which the initial two days are reserved. As a result, during this ninth edition, it was decided that instead of an air show at the opening of the school year, the show should be held in October as part of the 70th birthday celebration of the People's Republic of China. Not only regionally based aircraft attended the show, but even a show-off of two J-20s and J-16 featured the programme during the initial two days. Unfortunately, for this show tickets have to be obtained in advance and we suspect not many foreigners will get one. As a result this report has been compiled from pictures available on the internet.

### Houston Ellington, TX (USA)

Wings over Houston Airshow 19 October 2019

#### Static:

(71-0295)	A-7D	cockpit
85-0009	C-5M	68th AS
97-0044	C-17A	89th AS
94-0264	RC-26B	111st RS
75-0745	F-16A	traveling exhibit
88-0545/OK	F-16C	125th FS
11-4120/TX	MQ-1B	111st RS, as 14th ATKW
02-3651/CB	T-6A	41st FTS
11-05708	AH-64D	1-149th AVN
6581	MH-65D	Houston
71 bleu	L-39	cockpit
N26AZ	TF-100F	(GT-844), as 63-951/SS
N1954Z	HU-16C	142362
N246MH	MH1521M	246/30-QA
N524CF	TA-4F	153524/TM-08
NX749CF	F-4D	(65-0749), as 37-680/FP
N900RW	B-17G	(44-85718), as 238050
N909NA	T-38N	NASA
N7678F	HH-46E	157678/01
(N12964)	OH-6A	65-12964

#### Static/Flightlines:

NX14WB	F8F-2	122619/P-14
N21EV	MiG-21UM	1071/Czech
NX43RW	F4U-5N	121881/RW-21
NL51MV	P-51D	45-11391/00
NL51VF	P-51D	(45-11553), as 472934/
N93RW	A-24B	42-54682/S-9
N182FX	Cornell 2	(FX182)
N197L	Beech D18S	as KR-411, not ex mil
(N333RW)	B-25J	(44-86734), as 02344
N566TX	SNJ-5	(85053), as 04566
NX632NA	T-28D	(227/Honduras), as 51-7632
N651SH	T-6G	C.6-168/421-59
NX700F	F7F-3P	80390/03/55
N747AF	B-25J	44-30456

N778MS	MS500	4/France
N826BT	BT-13A	(41-11528)
N834G	T-34A	53-4126/DG-26
(N959RT)	Spitfire LF.IXc	(H-15/KLu), as MK959
N991VR	SNJ-5	90991/91
NX996	MiG-15bis	(122071), as 996 red
N1078Z	F6F-5	(70222)
N1548M	L-5E	(42-98512)
N2047 *	Harvard 4	(20292/Canada)/310
N3048	Ce337G	as 3048, not ex mil
N3242G *	SNJ-5	(43766)/AI-313
N3725G *	SNJ-5	(84875)/All-356
N4447 *	Harvard 4	(20450/Canada)/AI-111
NX4747P	P-47N	(44-90368), as 433240
N5221K	Navion	as 502121/TX/LD-121
N6763	P-63F	43-11719
N7185	Expeditor 3NM	(1504/Canada), as 7185
NL7227C	B-17G	44-83872/VP-X
N7825C	F8F-2P	122674/S-201
N9097 *	Harvard 4	(20367/Canada)/AI-112
N9643C	B-25J	(44-86758)
N9790Z	Harvard 2B	(3048/Canada)
N9820C	SNJ-6	(112178)/18/47PS
N9964Z	FG-1D	92468/530
N10908 *	Harvard 4	(20251/Canada)/CD-00
N11171 *	AT-6B	(41-17422)/AI-115
N15797 *	Harvard 4	(20408/Canada)/AI-114
NX15799 *	Harvard 4	(20326/Canada)/AI-113
N27003	BT-13A	41-21178/018
N44007	T-34A	(53-3365)/126
N44741	N3N-3	2781/41
N56478 *	BT-13A	(41-22926)/BI-78
N61372	BT-13A	42-42564/468

This area was open to the public in the morning till around 10:00, when it was closed off and the flying started. Those with a \* were modified to look like Japanese aircraft and did their famous "Tora, Tora, Tora!" display.

#### Other flightlines:

89-2007/OK, 89-2010/OK	F-16C	125th FS
89-2145/OK	F-16C	125th FS, as 125th FS
90-0719, 90-0748/OK	F-16C	125th FS
92-3880/1, 92-3908/2	F-16C	ADS
92-3888/3, (92-3896)/5	F-16C	ADS
93-0553/6, _____/-	F-16C	ADS
(91-0479)/-	F-16D	ADS
13-5075/LF, 13-5081/LF	F-35A	308th FS
168903/NJ-542	EA-18G	VAQ-129
169208/NJ-562	EA-18G	VAQ-129

02-05313, 04-05433  
05-05485, 11-05707  
N1390A

#### Elsewhere:

6518  
N930NA  
N992NA  
(N31957)

AH-64D  
AH-64D  
L-139

MH-65D  
KC-135A  
G-III  
S-2A

1-149th AVN  
1-149th AVN  
(5501, c/n 295501)

Houston, hangar  
(59-1481), preserved  
NASA, hangar  
133242, stored

### Fort Worth Alliance, TX (USA)

Fort Worth Alliance Airshow

20 October 2019

#### Static:

9354	MiG-21UM	cockpit
84-0148	C-12F	517th AS
97-0046	C-17A	437th AW
93-1459	C-130H	181st AS
61-0264	KC-135R	121st ARW
63-7995	KC-135R	22nd ARW
86-0231/TX	F-16C	457th FS, as 301stFW
73-21858/FR	TH-1H	23rd FTS
81-23646	HH-60G	512th RQS
92-0334/CB	T-1A	451st FTS, as 479th FTG
99-3562/CB	T-6A	37th FTS
61-0904/TY, 68-8186/TY	T-38A	2nd FTS
65-10374/CB	T-38C	50th FTS
68-8177/TY, 70-1559/TY	T-38A	2nd FTS
/200	F-14	cockpit
163155/MA-00	FA-18A	VFMA-112
168883/NE-206	FA-18E	VFA-113
168878/NE-201	FA-18E	VFA-113
163626/B-226,	T-45C	TW-2
163656/B-200	T-45C	TW-2
79-23203	AH-1F	on trailer
12-08887	CH-47F	B/2-149th AVN
N17GB	GB-2	(33019)
N101NZ	Harvard 2	NZ1079
NX165KK	CT-133	(133165), as 50-429
N189G	C-1A	146044/JK-62
N234RJ	T-34A	(55-0216)
N240P	A-26B	(41-39427)/P
N252WB	Yak-52W	c/n 0012212, not ex mil
(NX385AF)	T-38A	(65-10365)/1
N470BH	B47G-4A	c/n 7706
N541	H369D	private
N633AX	Mirage F1CR	653/France
N976FD	B757-2B7SF	Fedex
N1129A	B767-300SF	PrimeAir
N1510L	B206B-3	Dallas Police



The Bell V-280 Valor is a tilt-rotor aircraft being developed for the US Army Future Vertical Lift Program. It is intended to replace various types within the US Army. (20 October 2019, Ft. Worth-Alliance (TX), Otger van der Kooij)



Many will have heard of the simultaneous crash of four Thunderbirds T-38s during rehearsals in 1982. This jet, 68-8177, certainly remembers as it was one of the two that narrowly escaped the formation before it hit the ground. Otger van der Kooij managed to get this photo from the static show at Fort Worth-Alliance on 20 October 2019.

N3946K	L-19E	(24716/ALAT)	<u>Flying only:</u>		
N2805J	C-47D	(43-16369), as 43-770/EL	N214AX	L-39ZA	(ex 109/Romania)
N5105A	LM-130J	(c/n 5824)	N280BH	Bell V-280	Bell
N5548N	B-25H	(43-4106), as 34380	<u>Hamamatsu (Japan)</u>		
N9145	FWP149D	91+45	<hr/>		
N7070C	SNJ-4	(27668)	Airshow	20 October 2019	
N44821	N3N-3	4488/227	<u>Static:</u>		
N59840	BT-13B	(41-11449), ex Mexico	85-1079	C-130H	401 Hikotai
N60591	Ce305E	as 65-866/BH	34-3454	E-2C	Hiko Keikai Kanshigun
N61559	PT-17	40-1784/340	13-8510	F-2A	1 Jyutsaka Gakko
N63707	N2S-3	(07334)/851	42-8841	F-15J	1 Jyutsaka Gakko
N67631	NE-2	29677	06-5641, 16-5664	T-4	32 Kyoiku Hikotai, spec. c/s
NX97854	OV-10D	155493/UU-03	96-5775	T-4	31 Kyoiku Hikotai, spec. c/s
<u>Flightline before crowd line:</u>			<u>Inside hangar:</u>		
93-0540/SW	F-16C	55th FS	06-5782	T-4	32 Kyoiku Hikotai
01-7050/SW	F-16C	77th FS	06-5783, 16-5795	T-4	31 Kyoiku Hikotai
01-4027/TY, 02-4040/TY	F-22A	43rd FS	<u>Elsewhere/flying:</u>		
163439/1, 163462/2	F/A-18C	Blue Angels	90-0808/WW, 91-0423/WW	F-16C	14th FS, 13th FS
163429/3, 163768/4	F/A-18C	Blue Angels	64-3501, 84-3504	E-767	602 Hikotai
162411/5	F/A-18A	Blue Angels	63-8502	F-2A	Hiko Kaihatsu Jikkendan
163705/6	F/A-18C	Blue Angels	57-6907	RF-4E Kai	501 Hikotai
169631/NJ-106	F-35C	VFA-125	88-4606	UH-60J	Koku Kyunandan
<u>South side flightlines:</u>			86-5609, 96-5619, 16-5656	T-4	31 Kyoiku Hikotai
95-3007/EN	T-6A	459th FTS, brown c/s	56-5739, 96-5778	T-4	31 Kyoiku Hikotai
03-3674/EN, 04-3711/EN	T-6A	89th FTS	26-5807	T-4	32 Kyoiku Hikotai
03-3689/EN	T-6A	89th FTS, green c/s	36-5906, 46-5918	T-7	11 Hiko Kyoikudan
65-10432/EN	T-38C	88th FTS	71-5254	T-33A	preserved
70-1578/EN	T-38C	88th FTS, as 88th FTS	21-5063	T-400	41 Kyoiku Hikotai
162419/-	F/A-18B	Blue Angels	22-3020	U-125A	Koku Kyunandan
163464/7	F/A-18D	Blue Angels	<u>Blue Impulse T-4:</u>		
85-1608	C-31A	USAPT	26-5692/1, 26-5686/2, 66-5745/3, 36-5697/4, 26-5690/5, 16-5666/6	Report compiled from photographs on the net.	
NL20TF	TP-51D	(FAB521), as 463187	<u>JMSDF Ozuki (Japan)</u>		
NL40PN	P-40N	(44-7369), as P-8104/5	<hr/>		
N44CH	G44A Widgeon	as FP469	Airshow	20 October 2019	
N178CW	L-39C	(c/n 432848, ex 89 yellow)	<u>Static:</u>		
N123VV	S211	386/Singapore	36-5908	T-7	12 Hiko Kyoikudan
NX250CF/023	S211	(342/Singapore)	31304/XIII	OH-6D	13 Hikotai
NL74190	P-51D	(44-74452)/MC-1	8421	SH-60K	212 Kyoiku Kokutai
<u>Far northern side:</u>			8812	TH-135	211 Kyoiku Kokutai
60-0367	KC-135R	121ARW			

6364	T-5	201 Kyoiku Kokutai
6839	TC-90	202 Kyoiku Kokutai
JA868A/MA868	Beech 350	JCG/7th Region

Elsewhere/flying:

6342, 6346, 6347, 6348	T-5	201 Kyoiku Kokutai
6355, 6365 + 3	T-5	201 Kyoiku Kokutai
9902	US-2	71 Kokutai

Preserved:

6292	KM-2
6334	T-5

Report compiled from photographs on the net. The picture of the formation of nine T-5s was not clear enough to get all the serials.

Boca del Rio-BA Mariscal Sucre (Venezuela)

Expo Aéreo Venezuela 2019 24-27 October 2019

49614/KT	AS332B1	Grupo 10
59195/AJ	AS532AC	Grupo 10
1112	Beech B200	Grupo 5
61553/CE, 61554/CE	DA40NG	Grupo 18
61556/CE, 61557/CE	DA40NG	Grupo 18
61559/CE	DA40NG	Grupo 18
61650/KR	DA42VI	Grupo 18
2460, 5050	EMB312A	Grupo 14
61750/AI	Enstrom 480B	Grupo 19
0678, 1041	F-16A	Grupo 16
1715	F-16B	Grupo 16
7072	F260EU	Grupo 14
2707	K-8VV	Grupo 12
61868/KL	K-8VV	Grupo 15
00863/BH	Mi-35M2	716 BHM
10071/BH	Mi-35M2	716 BHM
...	Bell 412EP	EscAer de ApóyoTact
01105	CeU206G	EscAer de Adiestramiento
GNB-94100	Bell 412HP	GN
PA-002	AS350B3	Policía Estado Araguá
PA-003	H130	Policía Estado Araguá

YVO160, YVO161	DA42MPP	SBS
YVO163, YVO164	DA42MPP	SBS
YV380T	B737-230	Rutaca
YV1833	MD600N	
YV2792	B737-2B7	Estelar
YV2860	Bell 407	
YV2969	Ce208B EX	Conviasa
YV3255	PA-31	
YV3445	MD-83	LASER

Some more aircraft were present, like an Enstrom helicopter and more Diamonds.

Hsinshe (Taiwan)

UH-1 Retirement Ceremony

30 October 2019

Static other side of runway:

901/27250, 903/27252	UH-60M	601 Air Assault Group
905/27279, 911/27288	UH-60M	601 Air Assault Group
913/27315, 917/27296	UH-60M	601 Air Assault Group
921/27300, 923/27302	UH-60M	601 Air Assault Group
927/27306	UH-60M	601 Air Assault Group
902/27251, 904/27253	UH-60M	602 Air Assault Group
910/27287, 916/27295	UH-60M	602 Air Assault Group
920/27299, 922/27301	UH-60M	602 Air Assault Group
924/27303, 926/27307	UH-60M	602 Air Assault Group
930/27312	UH-60M	602 Air Assault Group

Static between hangars:

413/65-2113	UH-1H	602 Air Assault Group
908/27285	UH-60M	602 Air Assault Group

Flypast:

309/60-2009, 391/64-2091	UH-1H	602 Air Assault Group
422/69-2122	UH-1H	602 Air Assault Group
605/31014, 611/31020	OH-58D	602 Combat Recon. Grp.
618/31027	OH-58D	602 Combat Recon. Grp.
602/31011, 612/31021	OH-58D	601 Combat Recon. Grp.
620/31029	OH-58D	601 Combat Recon. Grp.
513/164925, 520/164932	AH-1W	602 Attack Helicopter Grp.
523/164935, 528/165335	AH-1W	602 Attack Helicopter Grp.



Our regular contributor Reinier Schreurs was present at the UH-1H retirement ceremony at Hsinshe on 30 October 2019. Retiree UH-1H 413 was among the helicopters on the static display.



Seen while preparing to take part in the flypast at Hsinshue on 30 October 2019, AH-1W 528 was photographed by Reinier Schreurs. The Cobra is part of the 602nd Attack Helicopter Group.

538/165373, 556/165558	AH-1W	602 Attack Helicopter Grp.
906/27281, 909/27286	UH-60M	602 Air Assault Group
912/27289, 918/27297	UH-60M	602 Air Assault Group
928/27310, 929/27311	UH-60M	602 Air Assault Group
816/10016, 817/10017	AH-64E	601 Attack Helicopter Grp.
824/10024, 827/10027	AH-64E	601 Attack Helicopter Grp.
828/10028, 829/10029	AH-64E	601 Attack Helicopter Grp.
7302, 7305	CH-47SD	Air Transport Group

**Flying:**  
 507/164919, 530/165337 AH-1W 602 Attack Helicopter Grp.  
 316/61-2016 UH-1H 602 Air Assault Group  
 919, 925 UH-60M 602 Air Assault Group

On 30 October 2019 the Republic of China Army said goodbye to the UH-1H while on this same day the successor of the Huey, the UH-60M, reached full operational capability. In 1969 an order was placed with Bell for the procurement of 118 UH-1H helicopters. The first helicopters arrived in December 1970 from the Bell factory while the remainder were assembled in Taiwan between June 1972 and December 1976. And now, after 49 years of service, it was time to say goodbye to this workhorse with a ceremony at Hsinshue helicopter base. Three UH-1Hs had the honour of leading a formation of six OH-58Ds, six AH-1Ws, six UH-60Ms, six AH-64Es and two CH-47SDs over the base. After that, Huey 316 dropped off some special forces soldiers who were picked up by Black Hawk 909. Also, the crew chief from the Huey handed over a small plaque to the crew chief of the Black Hawk, symbolizing the handing over of the duties from the UH-1 to the UH-60. After take-off, Huey 316 received a water salute from the fire brigade. After retirement from the ROC Army some of the remaining UH-1s will be donated to schools and universities in Taiwan or countries that have friendly ties with the Republic of China.

### Lima/Las Palmas-Chorillos (Peru)

Puertas Abiertas		2 November 2019
...	A109	
EP-645	Mi-8MTV-1	
EP-624	Mi-17-1V	
EP-681	Mi-171Sh-P	<b>7455U</b>
EP-688	Mi-171Sh-P	BAT811 <b>7462U</b>

EP-689	Mi-171Sh-P	BAT811	<b>7463U</b>
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The construction numbers are prefixed by **171S0060413**.

### JGSDF Camp Akeno (Japan)

Airshow 3 November 2019

**Static:**

78-4584	UH-60J	Koku Kyunandan
8901	USH-60K	51 Kokutai
73489/S/89	AH-1S	Akeno Koku Gakko
32629/VATH	OH-1	5 Taisensha Herikopotatai
45001	XUH-2	ATLA
31308/X	OH-6D	10 Hikotai, spec. c/s
74511/IIIATH	AH-64DJP	3 Taisensha Herikopotatai
62355/S	TH-480	Akeno Koku Gakko

**Elsewhere/flying:**

85-1079	C-130H	401 Hikotai
57-8357	F-4E Kai	Hiko Kaihatsu Jikkendan
86-5609	T-4	31 Kyoiku Hikotai
36-5906, 46-5919	T-7	11 Hiko Kyoikudan
73436/VATH	AH-1S	5 Taisensha Herikopotatai
73441/IIATH/41	AH-1S	Akeno Koku Gakko
73465/IIIATH/65	AH-1S	Akeno Koku Gakko
32633/WH/33	OH-1	Akeno Koku Gakko
41827/SD, 41843/SD	UH-1J	Kyoiku Shien Hikotai
41844/-/844	UH-1J	Utsunomiya Kou
41925/X	UH-1J	10 Hikotai
31304/XIII, 31306/XIII	OH-6D	13 Hikotai
31308/X, 31312/X	OH-6D	10 Hikotai
52931/SD	CH-47J	Kyoiku Shien Hikotai
52934/SK	CH-47J	Kasumigaura Kou
52951/SD	CH-47JA	Kyoiku Shien Hikotai
43101/S/01	UH-60JA	Akeno Koku Gakko
43102/SD	UH-60JA	Kyoiku Shien Hikotai
62354/S, 62357/S, 62359/S	TH-480	Akeno Koku Gakko
23051/LR	LR-2	Renraku Teisatsu Hikotai

Report compiled from photographs on the net. OH-6D 31308 had special golden markings applied (port side only), commemorating 40 years of OH-6 operations by 10 Hikotai. The show probably also marked the end for the squadron's OH-6D operations as the helicopter had 'Final Egg' and 'Farewell Oscar' decals applied.

## Iruma (Japan)

Airshow 3 November 2019

### Static:

73482/IATH	AH-1S	1 Taisensha Herikopotatai
8412	SH-60K	21 Kokutai
68-1020	C-1	402 Hikotai
68-1204	C-2	403 Hikotai
75-1077	C-130H	401 Hikotai
33-8117	F-2B	21 Hikotai
57-6907	RF-4E Kai	501 Hikotai
42-8844	F-15J	303 Hikotai
57-4494	CH-47J	Iruma Herikopuya Kuyutai
08-4590	UH-60J	Koku Kyunandan
46-5711	T-4	Shireibu Hikotai
36-5909	T-7	11 Hiko Kyoikudan
71-5059	T-400	41 Kyoiku Hikotai
02-3015	U-125A	Koku Kyunandan
12-1160	YS-11FC	Hiko Tenkentai

### Inside hangar:

26-5687	T-4	Shireibu Hikotai
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### Flightline:

78-1025, 78-1026, 88-1028	C-1	402 Hikotai
98-1029, 08-1030, 18-1031	C-1	402 Hikotai
17-4500	CH-47J	Koku Kyunandan
16-5669, 26-5674, 46-5719	T-4	Shireibu Hikotai
16-5796, 16-5797	T-4	Shireibu Hikotai
75-3251, 85-3253, 95-3254	U-4	no badge
29-3041, 39-3042	U-125	Hiko Tenkentai
52-1151	YS-11FC	Hiko Tenkentai
12-1162	YS-11EA	Denshi Sakusengun

### Blue Impulse T-4:

26-5692/1, 26-5686/2, 66-5745/3, 36-5697/4, 26-5690/5, 16-5666/6  
46-5731/-

### Dumped:

58-1013	C-1	no engines/tail
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## Tachikawa (Japan)

Airshow 9 November 2019

### Static:

73443/IVATH	AH-1S	4 Taisensha Herikopotatai
32630/EH	OH-1	Tobu Homen Herikopotatai
41714/EAAFM	UH-1H	i/a
41834/-	UH-1J	unit unknown
31172/EAAFM	OH-6D	i/a
31311/XIII	OH-6D	13 Hikotai

### Hangar:

41897/I	UH-1J	1 Hikotai
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### Flightlines:

73439/IVATH, 73463/IVATH	AH-1S	4 Taisensha Herikopotatai
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41808/EH	UH-1J	Tobu Homen Herikopotatai
41810/NH	UH-1J	Hokubu Homen Herikopotatai
41818/SK	UH-1J	Kasumigaura Kou
41833/EH, 41877/EH	UH-1J	Tobu Homen Herikopotatai
41891/I	UH-1J	1 Hikotai
41902/-	UH-1J	unit unknown
41919/EH	UH-1J	Tobu Homen Herikopotatai
41923/I	UH-1J	1 Hikotai
41929/EH	UH-1J	Tobu Homen Herikopotatai
52918/XIIH	CH-47J	12 Herikopotatai
52934/SK	CH-47J	Kasumigaura Kou

## Komaki (Japan)

Airshow

9 November 2019

### Static:

73456/SD	AH-1S	Kyoiku Shien Hikotai
41843/SD	UH-1J	Kyoiku Shien Hikotai
31312/X	OH-6D	10 Hikotai
5512	P-1	3 Kokutai
9902	US-2	71 Kokutai
88-1208	C-2	403 Hikotai/nb
07-8429	F-4EJ	Hiko Kaihatsu Jikkendan
57-6907	RF-4E Kai	501 Hikotai
87-3602	KC-767J	404 Hikotai
36-5909	T-7	11 Hiko Kyoikudan
JA964A	AW139	JCG/4th Region

### Flightline/flying:

88-1028	C-1	402 Hikotai
75-1076, 75-1077, 85-1079	C-130H	401 Hikotai
97-3603, 07-3604	KC-767J	404 Hikotai
63-8502	F-2B	Hiko Kaihatsu Jikkendan
17-4500	CH-47J	Koku Kyunandan
98-4569, 78-4584	UH-60J	Koku Kyunandan
98-4595	UH-60J II	Koku Kyunandan
82-3007, 62-3024	U-125A	Koku Kyunandan

### Blue Impulse T-4:

26-5692/1, 26-5686/2, 66-5745/3, 36-5697/4, 26-5690/5, 16-5666/6  
46-5731/-

Report compiled from photographs on the net. Probably much more C-130Hs were present.

## Semarang-Ahmad Yani (Indonesia)

60th anniversary of Army Aviation

9-10 November 2019

HS-7211, HS-7213	AH-64E	SKUAD11
HS-7201	AS550C3+	SKUAD12
HS-7204	AS555AP	SKUAD13
HA-5077, HA-5124	Bell 205A-1	SKUAD11
HA-5125	Bell 205A-1	SKUAD11
HA-5103	NB412S	SKUAD11
HA-5115	NB412HP	SKUAD11
HA-5128	NB412HP	Pus. Pend. Penerbad
HS-7107	NBo105CB4	SKUAD11



Massive line-up of RoC Army UH-60Ms at Hsinshueh. This helicopter is the successor of the UH-1H fleet and reached full operational capability on 30 October 2019. (Reinier Schreurs)



Almost all types now in use with the South Korean armed forces were present on the static of ADEX2019 at Seongnam. Pictured here is KT-104-077, photographed by Paul van der Linden on 14 October 2019.

HS-...8	NB0105		A35-015, A35-016	F-35A	3sq
A-9144	NC212-200M	SkUAD21	A41-208, A41-209	C-17A	36sq
HL-4151, HL-4150	EC120B	Pus. Pend. Penerbad	A41-212	C-17A	36sq
HA-5143	Mi-17V-5	SkUAD31	A34-007	C-27J	35sq
HS-7129, HS-7152	Mi-35P	SkUAD31	A39-001, A39-002	KC-30A	33sq
HL-4194, HL-4195	S300C	Sekolah Penerbang	A21-26	F/A-18A	nb, 75sq
HL-4217, HL-4221	S300C	Sekolah Penerbang	A21-35	F/A-18A	75sq
HL-4223	S300C	Sekolah Penerbang	A44-218	F/A-18F	1sq
PK-BST	Mi-171C	BASARNAS	A47-008	P-8A	11sq
PK-PCT	NC212-200	Pelita Air Service	A54-032, A54-033	PC-21	CFS Roulettes
			A54-034, A54-035	PC-21	CFS Roulettes
			A54-036, A54-037	PC-21	CFS Roulettes
			A54-038	PC-21	CFS Roulettes
			VH-EMI	Beech 1900C-1	DSTO
			N48-020/20	MH-60R	725sq
			VH-ABL	DH82A	
			VH-AIB	DH94	as RAAF A21-38
			VH-AON	DH84Mk3	as RAAF A34-30
			VH-CJX	CJ-6	as/ex PLAAF 3051216/11
			VH-CTK	CT-4A	as/ex RAAF A19-040
			VH-CTV	CT-4B	as/ex RAAF A19-068
			VH-FTS	CA-25 Winjeel	as RAAF A85-439
			VH-HET	Spitfire HF.VIII	as RAAF A58-758/RG-V
			VH-IOY	SP-2H	as RAAF A89-273
			VH-KOY	Hudson Mk.IVA	as RAAF A16-211
			VH-KTY	P-40E	as RAAF ET953/CV-V
			VH-MBX	Meteor F8	as RAAF A7-851
			VH-MFT	CA-18 Mustang	ex A68-110, as A68-769
			VH-MFW	CA-16 Wirraway	as RAAF A20-695
			VH-MHR	CA-13 Boomerang	as RAAF A46-122/MH-R
			VH-NNG	CJ-6A	as/ex PLAAF 4432005
			VH-NZP	CT-4A	as/ex RAAF A19-077
			VH-OII	O-2A	as/ex USAF 67-21407
			VH-OIZ	Gazelle AH1	ex AAC XZ338
			VH-ORI	AP-3C	as/ex RAAF A9-753
			VH-PBZ	PBY-6A	as RAAF A24-362/OX-V
			VH-PSM	Ce180D	as/ex RAAF A98-063
			VH-VBB	DHC-4A	as/ex RAAF A4-234
			VH-VHV	Yak-52	as/ex DOSAAF 136
			VH-WAS	CA-18 Mustang	as RAAF A68-118
			VH-XBL	CA-13 Boomerang	as RAAF A46-63/LB-L
			VH-XRO	Yak-52	as/ex DOSAAF 128
			VH-XVA	A-37B	as VNAF 10779
			C-FDNL	Hurricane Mk.XII	as RAAF V6748/PO
			<u>Elsewhere:</u>		
			A9-658	AP-3C	std, future gateguard
			A9-660	AP-3C	11sq hangar
			A47-001	P-8A	11sq hangar
<u>Flying only:</u>					
1x	AS555				
2x	Bell 412				
1x	NB105				
HL-4218, HL-4220	S300C	Sekolah Penerbang			
HL-4222 +1	S300C	Sekolah Penerbang			
This was an open day to celebrate 60 years of army aviation (60-Ke Penerbad). All identities were gleaned from Instagram photographs and all units are assumed. It seems some of the Huey-models changed between the days (flying/static).					
<u>RAAF Edinburgh, SA (Australia)</u>					
<u>Adelaide Air Show 2019</u> 9-10 November 2019					
<u>Static:</u>					
A32-988	Beech 350i	32sq			
A97-440	C-130J-30	37sq			
A41-211	C-17A	36sq			
A34-005	C-27J	35sq			
A30-002	E-7A	2sq			
A21-24	F/A-18C	75sq			
A21-112	F/A-18B	75sq			
A44-211	F/A-18F	1sq			
A46-307	EA-18G	6sq			
A35-015	F-35A	3sq			
A47-009, A47-011	P-8A	11sq			
A54-017, A54-018	PC-21	ARDU			
ZM415	Atlas C1	24/70sq			
VH-UJEX/01	DA42	Air Cadets			
A77-851/851	Meteor F8	forward fuselage			
.../768	F-4J	forward fuselage			
VH-QQW	Fokker 70	Alliance Airlines			
VH-SLF	Lj36	Air Affairs (Australia)			
VH-XND	CL-604	Cobham SAR Services			
<u>Flightlines/flying</u>					
A32-670	Beech 350	32sq			
A97-465	C-130J-30	37sq			
A30-001, A30-004	E-7A	2sq			

## Gifu (Japan)

Airshow 10 November 2019

Static:		
73456/SD	AH-1S	Kyoiku Shien Hikotai
41843/SD	UH-1J	Kyoiku Shien Hikotai
66-5603	T-4	Hiko Kaihatsu Jikkendan
86-5605	T-4	Hiko Kaihatsu Jikkendan
29-3041	U-125	Hiko Tenkentai
51-5058	T-400	41 Kyoiku Hikotai
51-0001	X-2	ex TRDI

T-4 66-5603 was painted in the old test colour scheme (orange/white/blue) for the 50th anniversary of the Test Pilot Course.

Inside hangar:		
63-8101	F-2A	Hiko Kaihatsu Jikkendan

Flightline/flying:		
78-1024	C-1	Hiko Kaihatsu Jikkendan
63-8502	F-2A	Hiko Kaihatsu Jikkendan
93-8553	F-2A	Hiko Kaihatsu Jikkendan
63-8102, 03-8105	F-2B	Hiko Kaihatsu Jikkendan
57-8357	F-4EJ Kai	Hiko Kaihatsu Jikkendan
47-8336, 77-8393	F-4EJ	Hiko Kaihatsu Jikkendan
07-8431	F-4EJ Kai	Hiko Kaihatsu Jikkendan

57-6907	RF-4E Kai	501 Hikotai
12-8078	F-15DJ	Hiko Kaihatsu Jikkendan
02-8801, 52-8853, 12-8928	F-15J	Hiko Kaihatsu Jikkendan
07-3604	KC-767J	404 Hikotai
86-5949	T-7	Hiko Kaihatsu Jikkendan

Report compiled from photographs on the net. As always the local unit displayed several multi-type formations, the nine-shipper consisted of the C-1 leading two Phantoms, three Eagles and three F-2s. Not a single T-4 was seen flying.

## JMSDF Tokushima (Japan)

Airshow 17 November 2019

Static/elsewhere/flying:		
56-5925	T-7	12 Hiko Kyoikudan
39-3042	U-125	Hiko Tenkentai
8271	SH-60J	24 Kokutai
8654	MCH-101	111 Kokutai
8815	TH-135	211 Kyoiku Kokutai
5063	P-3C	203 Kyoiku Kokutai
63..	T-5	201 Kyoiku Kokutai
6837	TC-90	202 Kyoiku Kokutai
9906	US-2	71 Kokutai
9204	U-36A	91 Kokutai

Report compiled from photographs on the net.



The Finnish Midnight Hawks was one of the teams seen performing during the NATO days at Ostrava on 22 September 2019. (Jochen Schrader)



Dramatic action photograph of Luftwaffe Tornado 44+21, seen during arrival at the NATO days at Ostrava. The aircraft belongs to TLG51 and was photographed by Hans Antonissen on 20 September 2019.

# Triptease



Germany's southern civil aviation hub, Franz Josef Strauss airport near Munich, was visited on three days during this combined trip. The weather was challenging at times but S7 Airbus A320 VP-BOL was caught in the afternoon sun, landing on runway 08L. Raymond van Dijkhuizen took the photo from the visitors centre spotting hill on 4 September 2019.

## Combined trips

### Germany-Austria trip 2019

The main purpose of this trip was to visit the Airpower 2019 airshow at Zeltweg Airbase in Austria. As i did not want to drive the whole distance at once by myself, and as i am also a W&R aficionado, i also planned some museums in this trip. As i do not visit the airport of Munich much, i also included some hours here to fill the log. The idea was to have a relaxed trip to Zeltweg and therefore i did not want to arrive very late at my hotels. In the end, the trip was a nice one, even when i encountered some logistics hassle and weather issues at Zeltweg.

Donauwörth		4 September 2019	
78+13	NH90-TTH		
78+21	NH90-TTH	Airbus Helicopter	
79+54	NH90-NFH	Airbus Helicopter	
84+97	CH-53GA	HSG64	
D-HECN	H135		<b>2043</b>
D-HECP	H135	Straz Graniczna	<b>2069</b>
D-HADX	H145		

Early in the morning we left from the Netherlands to Donauwörth in Germany to have a peak at Airbus if there were any helicopters visible. As it was not very busy we decided to drive on to Munich for a visit at Franz Josef Strauss airport. After a few hours there we drove to our hotel for the night.

München-Franz Jozef Strauss		4 September 2019	
L11Kh.MVK-01/38	B737-4Z6	Royal Thai Air Force	
A6-ETR	B777-3FXER	Etihad Airways	
A7-BED	B777-3DZER	Qatar Airways	
D-ABFO	A320-214	Eurowings	
D-ACKD, D-ACNJ	CRJ900ER	Lufthansa Cityline	
D-AGBA	Falcon 8X	VW Air Service	
D-AGWH	A319-132	Eurowings	
D-AICF	A320-212	Condor	
D-AILB	A319-114	Lufthansa Cityline	
D-AKNH, D-AKNU	A319-112	Germanwings	
D-APGS	A319-115X	K5 Aviation	
D-ASEF	A320-214	SundAir	
D-AXGE	A330-203	Eurowings	
EC-KCU	A320-216	Vueling Airlines	
EC-MQP	B737-85P	Air Europa	
EI-IKL	A320-214	Alitalia	
EI-FIO	B737-8AS	Ryanair	
EI-GHJ	ERJ190AR	Stobart Air (a/w)	
F-GTAZ	A321-212	Air France	
G-EUUI	A320-232	British Airways	

G-EZAP	A319-111	easyJet
G-MEDL	A321-231	British Airways
G-OWTN	ERJ145EP	BAe Systems
G-UZHG	A320-251N	easyJet
HB-JBI	A220-100	Swiss
HB-JVU	ERJ190LR	Helvetic Airways
I-ADJM, I-ADJW	ERJ195LR	Air Dolomiti
JA880A	B787-9	ANA
LY-NVT	A320-214	Avion Express
LZ-LAC	A320-231	Bulgarian Air Charter
OE-INQ	A320-214	easyJet Europe
OE-IQC	A320-214	Eurowings Europe
OE-LBJ	A320-214	Austrian Airlines
OE-LDC	A319-112	Austrian Airlines
OE-LQL	A319-111	easyJet Europe
OE-LWQ	ERJ195LR	Austrian Airlines
OH-LZE	A321-211	Finnair
OY-KBH	A321-232	Scandinavian
SX-DVL	A320-232	Aegean Airlines
T7-GFA	CL-601	Golden Falcon Aviation
TC-NCA	A320-251N	Pegasus Airlines
TC-SOP	B737-8AS	SunExpress
TF-FIK	B757-256	Icelandair
TS-IOR	B737-6H3	Tunisair
UR-CAK	An-12BK	Ukraine Air Alliance
VP-BOL	A320-214	S7 Airlines
YL-AAP	A220-300	Air Baltic

### Hub traffic

Lufthansa A319 (1), A320 (6), A321 (6), A340 (2), A350 (5), A380 (2)

### Preserved at Airport Visitor Centre

T.2B-144	CASA 352L	as D-ANOY
41-20058	C-53B	as HB-IRN
D-HLFB	Bo105S	as D-HILF
F-HBML	L-1049G	as D-ALEM

The airport visitors centre, in the central area, also offers a very good view at the airport from the spotters hill.

		5 September 2019
4X-EHA	B737-958ER	EI Al Israel Airlines
9A-CQB, 9A-CQF	DHC-8-402	Croatia Airlines
9H-TJA	B737-8F2	Corendon Airlines Europe
9H-VCE	CL-350	VistaJet Malta
A6-ETL	B777-3FXER	Etihad Airways
A7-BED	B777-3DZER	Qatar Airways
D-ABGR	A319-112	Eurowings
D-ABHN	A320-214	Eurowings
D-ACKD, D-ACKF	CRJ900ER	Lufthansa Cityline
D-AGWI	A319-132	Germanwings
D-AGWK	A319-132	Eurowings

D-HBPB	EC135P2+	PolHuSt Bayern
EC-MPG	B737-85P	Air Europa
EI-EVG	B737-8AS	Ryanair
EI-GHK	ERJ190AR	Stobart Air
EI-IML	A319-112	Alitalia
F-HEPF	A320-214	Air France
G-EUPU	A319-131	British Airways
G-EZAO	A319-111	easyJet
HB-JBI	A220-100	Swiss
HZ-AQ12	A330-343	Saudia
I-ADJX	ERJ195LR	Air Dolomiti
LX-LQB	DHC-8-402	Luxair
N175DZ	B767-332ER	Delta Air Lines
N216UA	B777-222ER	United Airlines
N289AY	A330-243	American Airlines
N837AN	B787-9	American Airlines
N29968	B787-9	United Airlines
N68061	B767-424ER	Delta Air Lines
OE-LDC	A319-112	Austrian Airlines
OE-LKD	A319-111	easyJet Europe
OE-LMC	A320-214	Lauda Motion
OH-LZP	A321-231	Finnair
OY-KBO	A319-132	Scandinavian
S5-AAN, S5-AFC	CRJ900LR	Adria Airways
SX-DGQ	A321-231	Aegean Airlines
TC-FHC	A320-214	Freebird Airlines
TC-COE	B737-86J	Corendon Airlines
TC-JOK	A330-303	Turkish Airlines
TC-OBS	A320-232	Onur Air
TC-OEE	A321-253N	Onur Air
TC-SOH	B737-8HC	SunExpress Airlines
TC-TLA	B737-4Q8	Tailwind Airlines
VP-BJY	A320-214	Aeroflot
YL-AAP	A220-300	Air Baltic
YL-BBI	B737-33A	Air Baltic

**Based Airlines**

Lufthansa A319 (1), A320 (7), A321 (6), A340 (1), A350 (3)

After breakfast we drove to Munich airport again. The resulting time slot in the morning is one of the busiest moments at Franz Josef Strauss, as long distance flights arrive and depart. After a couple of hours at the spotter hill again, we drove to Graz in Austria.

Graz-Österreichisches Luftfahrtmuseum 5 September 2019

**Inside**

29541/H yellow	J29F	
4406	MiG-21MF	
32510/02	J32E	
35804/86	Sk35C	
37431	JA37Di	
J-1733	Venom FB54	
J-2309	Mirage 3S	
J-4094	Hunter F58	
D-9209	Grunau Baby IIB	
OE-0344	MG19B	
OE-9022	Raab Grahe	
OE-9244	Kulk RC-1	
OE-AXF	TSF-02	
OE-XOF	RAF 2000GTX	
OE-0968	SZD-30	std
PH-KMA	AT-16ND	std, ex MLD 043
1x	MB.E1	
1x	SG.38	

**Outside**

07	J35Ö	
5C-YA, 5C-YC	Vampire T55	std behind containers
9011	MiG-21UM	
50+94	C-160D	
0221	TS-11bisB	<b>1H0221</b>
1326	Lim-2	<b>1B1326</b>
(2919)	An-2TP	
N162TP	MB326M	ex SAAF 472
OE-APD	Luscombe 8	
OE-ATP	CeF150L	
OE-CMI	CeF150M	

The tailbooms of the Vampire show 5C-YC, while on the wings 5C-YA is visible. The fuselage is in a shed for restauration.

Graz-Fachhochschule Joanneum 5 September 2019  
06 J35Ö pres  
The Draken can be found at the Alte Poststrasse 149. The aircraft is parked outside and you can easily take pictures of it.

Upon special request the Austrian Aviation Museum (Österreichisches Luftfahrtmuseum) was open today. The museum is not very large but it has a good quantity of SAAB-built aircraft in its collection. Afterwards, two W&R locations were visited in the town of Graz, before it was time to check in at our hotel.

Graz-Thalerhof 5 September 2019  
OE-XVE EC135T2 ÖAMTC

Graz Town 5 September 2019  
3D-JJM B727-231 Sport Hawk pres  
1x Z37 pres

The Boeing is in use as a restaurant in top of the Novapark Hotel, and ex Ryan International in the livery it still wears. The Zlin 37 is in front of the building without any registration or plate on it.

Zeltweg 6 September 2019  
For the showreport, please refer to Scramble 485, pages 76-77.

**Preserved**

29588/D red J29F on pole

This Tunnan can be found near the museum gate.

Militärluftfahrtmuseum Zeltweg 6 September 2019

**Inside**

08, 21	J35Ö	
(12)	J35Ö	(open frame)
1116/GF-16	S105Ö	
29449/F yellow	J29F	
2A-AM	Z126	
3A-AA	Yak-18	
3A-BB	G46-4B	
3A-BH	L-19E	
3B-HD	OH-13H	
3C-JD	AB206A	
3F-SO	SAAB 91D	
4C-AF	Yak-11	
4C-TE	LT-6G	
4D-BW	AB204B	
5C-VF	Vampire T11	
5S-TA	SC-7-3M	
76+91	SE3130	as "3D-XJ"
217	CM170	as "4D-YL"
V-278	SE3160	as "3E-KG"
S2-0442	Grunau Baby	
S2-0443	MG19A	
OE-0547	L-Spatz 55	
17-524	SG.38	
1x	Bf109D-1	wreck in parts

**Outside**

09, 14	J35Ö
3F-SW	SAAB 91D
110	MiG-21bis

This Friday was spent at Zeltweg, for the first day of the Air-Power show and a visit to the museum.

München-Franz Jozef Strauss 7 September 2019

L11K.WPR-03/59	B737-8Z6	Royal Thai Air Force
L11Kh.MVK-01/38	B737-4Z6	Royal Thai Air Force
A6-EBO	B777-36NER	Emirates
A7-BAG	B777-3DZER	Qatar Airways
D-ABNI	A320-214	Eurowings
D-ACKB, D-ACNC	CRJ900ER	Lufthansa Cityline
D-AICD, D-AICF	A320-212	Condor
D-ATYJ	B737-86N	TUIfly
D-AXGF	A330-203	Germanwings
D-CCCA	Lj35A	Jet Executive
D-CELI	Ce550 Bravo	Euro Link

D-CGBR	Lj55	Jet Executive Int' l	D-ASXC	B737-86N	SunExpress Germany
D-IGOB	P180	Müller Sport & Flug	D-ATUD, D-ATUF	B737-8K5	TUIfly
EC-IEG	A320-214	Iberia	D-ATYI	B737-8K5	TUIfly
EC-LPR	B737-85P	Air Europa	EC-MNQ	CRJ1000	Air Nostrum
EI-DVK	A320-214	Aer Lingus	EI-DAL	B737-8AS	Ryanair
EI-FVH	B737-8JP	Norwegian Air International	EI-DVH	A320-214	Aer Lingus
EI-GHJ	ERJ190AR	Stobart Air (a/w)	EI-ENH, EI-FTL	B737-8AS	Ryanair
EI-GXJ	B737-8AS	Ryanair	EI-RDL	ERJ175STD	Alitalia
EI-IME	A319-112	Alitalia	EI-RJO	BAe146-RJ85	Cityjet
F-GRHY	A319-111	Air France	F-HBLE	ERJ190LR	HOP!
G-EZDA	A319-111	easyJet	F-HBXJ	ERJ170STD	HOP!
G-EZWJ	A320-214	easyJet	G-CLAA	B747-446F	CargoLogicAir
G-TTNI	A320-251N	British Airways	G-MEDM	A321-231	British Airways
HB-JBI	A220-100	Swiss	HS-TUE	A320-841	Thai Airways
I-ADJN, I-ADJS	ERJ195LR	Air Dolomiti	I-ADJP	ERJ195LR	Air Dolomiti
I-ADJU, I-ADJX	ERJ195LR	Air Dolomiti	JA784A	B777-381ER	ANA
HS-TKZ	B777-3D7ER	Thai Airways	LN-RPL	B737-883	Scandinavian
N181DN	B767-332ER	Delta Air Lines	N175DN, N176DN	B767-332ER	Delta Air Lines
N192DN	B767-332ER	Delta Air Lines	N216UA, N218UA	B777-222ER	United Airlines
N809AA	B787-8	American Airlines	N279AY	A330-243	American Airlines
OE-IJO	A320-214	easyJet Europe	N705CK	B747-4B5F	Kalitta Air
OE-IQA, OE-IQC	A320-214	Eurowings Europe	N765AN	B777-223ER	American Airlines
OE-LOQ	A320-214	Lauda Motion	N1612T	B767-332ER	Delta Air Lines
OE-LSY	A319-111	easyJet Europe	N2332U	B777-322ER	United Airlines
OE-LYU	A319-132	Eurowings Europe	N26902	B787-8	United Airlines
OH-LZC	A321-211	Finnair	N91007	B787-10	United Airlines
PH-HSD	B737-8K2	KLM	OD-MEA	A330-243	MEA
S5-AAN	CRJ900LR	Adria	OE-LWL	ERJ195LR	Austrian Airlines
TC-COE	B737-86J	Corendon Airlines	OH-LVC	A319-112	Finnair
TC-IZI	B737-8GJ	Pegasus	PH-EXC	ERJ190STD	KLM Cityhopper
TC-JNO	A330-343	Turkish Airlines	PH-EXN	ERJ175STD	KLM Cityhopper
TC-OEE	A321-253N	Onur Air	TC-JHA, TC-JHS	B737-8F2	Turkish Airlines
TC-TJI	B737-8S3	Corendon Airlines	TC-JIR	A330-223	Turkish Airlines
TC-TLA	B737-4Q8	Tailwind Airlines	TC-SEI, TC-SNU	B737-8HC	SunExpress
TS-IMM	A320-211	Tunisair	VN-A891	A350-941	Vietnam Airlines
UR-PSU	B737-8AS	Ukraine Int'l Airlines	VP-BKJ	A321-211	Aeroflot
VP-BNN	A319-111	Rossiya Airlines	VP-BTC	A320-214	Aeroflot
VP-BTJ, VQ-BHL	A320-214	Aeroflot	YL-LCP	A320-232	Smartlynx Airlines
YL-AAP, YL-AAQ	A220-300	Air Baltic	YR-BGH	B737-78J	TAROM
YR-BGG	B737-78J	Tarom			
ZS-SXG	A340-313X	South African Airways			

#### Based Airlines

Lufthansa A319 (2), A320 (4), A321 (3), A340 (2), A350 (4), A380 (1)

Speyer EADS factory 7 September 2019  
20+46 F-104G std

After breakfast, we drove to Munich airport again where we would stay for a couple of hours. We had rain in the first hour, after which the sky cleared a bit and we could enjoy movements. Around noon we drove to Sinsheim for the Technik Museum. We arrived an hour later than planned, due to rain and road closures. After just over an hour in Sinsheim, we left for the other Technik Museum, the one in Speyer. This was on our list as the Buran is preserved here. The museum nearly closed as we left to drive to our hotel in the vicinity of Frankfurt airport. The museum's inventory is not part of this trip report.

Frankfurt 8 September 2019

4X-EKS	B737-8HX	El Al Israel Airlines
9A-CTJ	A320-214	Croatia Airlines
9K-AOF	B777-369ER	Kuwait Airways
9V-SKK	A380-841	Singapore Airlines
A40-DD	A330-343	Oman Air
A6-BLN	B787-9	Etihad Airways
A6-EPG	B777-31HER	Emirates
A7-BEL	B777-3DZER	Qatar Airways
B-2033	B777-39LER	Air China
B-5977	A330-343	Air China
B-18006	B777-309ER	China Airlines
B-KPH	B777-367ER	Cathay Pacific Airways
C-FNOI	B787-9	Air Canada
C-FVLZ	B787-9	Air Canada
C-GHKX	A330-343	Air Canada
C-GLCA	B767-375ER	Air Canada
D-ABKA	B737-82R	TUIfly

#### Hub traffic

Condor A320 (1), A321 (1), B757 (2), B767 (1)  
Lufthansa A319 (3), A320 (12), A321 (13), A330 (1), A340 (5), A380 (5), B747 (9)

Lufthansa Cargo MD-11F (2), B777F (1)  
Lufthansa Cityline CRJ900 (6), ERJ190 (1)

This day, it rained cats and dogs. We were forced to spot from the McDonald's restaurant in Terminal 2. After a few hours, we returned to the Netherlands, as I had to be at work very early next day. The bad weather made driving home a disaster but finally we arrived safe and sound, having added 2900 kilometers to the 'mileage'.

Credit: Raymond van Dijkhuizen



Though built as a spacecraft, one Buran was equipped with jet engines to enable autonomous test flights, and so became an aircraft. Uniquely marked as CCCP-3501002, it has been on display in Australia, stored in Bahrain and eventually preserved at the Technik Museum Speyer. (7 September 2019, Raymond van Dijkhuizen)

# Hellenic Deltas



George Karavantos

*Mirage 2000-5EG 546 displays the blue and white finband of 331 Mira. 546 was one of the fifteen new-built Mirage 2000-5 Mk2 fighters acquired in the 2000's. This particular jet crashed on 12 April 2018 and is the only Mirage 2000-5 Mk2 that has been written off. In total, thirteen HAF Mirage 2000s have been written off. (17 January 2018, George Karavantos)*

In March 1985, the Greek government announced the purchase of 36 single-seat and 4 two-seat Mirage 2000s, in addition to the procurement of the F-16C/D Block 30. The base that was selected to operate the new aircraft was 114 Combat Wing (114CW) at Tanagra AB. At that time, this wing was already operating the other French aircraft that Greece had purchased, the Mirage F1CG.

It started with the Starfighter though. 114 CW was formed on 22 August 1956 and it initially consisted of three squadrons. The first F-104 Starfighters arrived at Tanagra AB in April of 1964 and they were kept operational until 30 June 1977. On 16 February 1967, the F-102 Delta Dagger arrived and stayed at Tanagra AB for almost ten years until they were retired in the beginning of 1977. The first French fighter for Greece, the Mirage F1CG, touched down for the first time on runway 10-28 on 4 August 1975 and ever since 114CW has always operated Mirage fighters.

In 1989 the first Mirage 2000 aircraft were introduced into Hellenic Air Force (HAF) service and delivered to the two newly founded squadrons, 331 Mira and 332 Mira, marking the beginning of a new era for the HAF. The aircraft was named EG, which stands for "Export Greece" and was based on the existing Mirage 2000C that was already operational with the French Air Force.

On 30 June 2003, the Mirage F1CG was prematurely retired after 28 years of continuous service. From that point on, 114CW only consists of these two squadrons operating Mirage 2000 delta-winged fighters.

331 Mira (squadron) was founded on 18 April 1988 for the acceptance of the Mirage 2000 into HAF service. The squadron was named "Thisseas" after the ancient Greek hero and its emblem shows Theseus pointing out a direction that two Mirages follow. The first aircraft landed at Tanagra AB on 27 April and at the same time all the training in different levels by French instructors had commenced. There were also a number of experienced pilots, who were previously selected

from other HAF squadrons and had already been trained on the Mirage 2000 in France.

About a year after the Mirage 2000 had entered service with 331 squadron, the second squadron was formed on 11 August 1989. 332 squadron was named "Geraki" (Hawk) with its emblem depicting a Hawk over a map of Greece with the Hellenic flag in the bottom right. The second Mirage 2000 squadron mainly used the former 334 squadron facilities at Tanagra, as 334 squadron had relocated to Iraklion, Crete.

The main role of both squadrons was initially all-weather interception. Despite the previous weapon of choice for the Mirage F1CG being the American AIM-9 Sidewinder, this time French missiles were selected for the French aircraft. Procured along with the aircraft, the short-range IR-guided Matra Magic IIs were initially the only missiles equipping the Mirage 2000s. In 1996 the capabilities of the Mirage were enhanced with the short to medium range radar-guided Matra Super 530D. These two air-to-air missiles in combination with the modern self-protection system ICMS (Integrated Counter Measures System) made the Mirage 2000 one of the best and more advanced fighters operated in the region at that time. In 1999, HAF officials decided to order a new anti-ship missile, the AM.39 Exocet. With the addition of this new weapon the Mirage 2000 gained the anti-shiping role, and for this reason the EG/BG were designated EGM/BGM.

In 2000, Greece signed a new agreement with Dassault for the order of fifteen new-built Mirage 2000-5 Mk2 fighters. In addition to the new aircraft, ten examples from the existing HAF fleet were brought up to 2000-5 Mk2 standard by Hellenic Aerospace Industry, using upgrade kits provided by Dassault. These were all single-seat 2000s, the ten airframes were selected based on their lower level of fuselage fatigue compared to the other single-seaters. The two most important new systems of the 2000-5 Mk2 were the RDY-2 radar and the self-defence suite ICMS Mk3.

331 squadron was selected to receive the new and upgraded aircraft, giving it a fleet of 25 aircraft. From the initial batch of forty 2000EG/BGs that the HAF acquired, the remaining fleet after losses and accidents, minus the ten upgraded ones, was around 25 EGM/BGM aircraft. So on 1 March 2007 the squadron handed over all its remaining older Mirages to 332 squadron, so each squadron would have 25 aircraft. The new era for 331 squadron began on 3 May 2007 when the first Mirage 2000-5 touched down on the runway of Tanagra airfield. Training provided by French personnel followed and the squadron became operational again almost a year later. The squadron received the last-ever built Mirage 2000, which rolled off the production line on 23 November 2007.

New and more sophisticated weapons arrived along with the new Mirages and these were the advanced air-to-air MICA missile in both radar-guided and IR-guided versions. Also for the first time in the history of the Greek Mirages, a new air-to-ground stand-off weapon, the SCALP munitions dispensing cruise missile, was introduced to the inventory

of the HAF. While it is compatible with the 2000-5 Mk2, the Magic II missile is only being carried by the older EGM/BGM variants since the 2000-5 has the modern MICAs.

The main visual difference between the Mirage 2000-5 Mk2 and the Mirage 2000EGM/BGMs is the absence of the pitot tube on the nose cone of the 2000-5 Mk2 because of the new RDY radome, which also has the antennas of the IFF interrogator. While initially the Mirage 2000-5 could also be distinguished by its hose-and-drogue aerial refuelling receptacle, it was later also added to the surviving EGM/BGM aircraft. Other visually notable differences are the four extra fuselage hardpoints on the 2000-5 for MICA missiles.

The initial forty Mirage 2000s are serialised 201-204 for the two-seaters and 210 to 245 for the single-seaters. Of these, serials 211, 214, 227, 230, 234, 235, 236, 240, 243 and 245 have been converted to Mirage 2000-5EG. The new-built Mirage 2000-5BGs have serials in the 505-509 range, whereas the new-built 2000-5EGs run from 546 to 555.



*The black and white checkered finband indicates that Mirage 2000EG 237 belongs to 332 Mira. (17 January 2018, George Karavantos)*



*509 is one of the Mirage 2000-5BGs from the second batch, delivered in the 2000s. It belongs to 331 Mira. (Albacete, 24 September 2018, Stephan de Bruijn)*

# Macedonian Air Power



Bram Marijnissen & Rene Slegers

*At the moment of our visit this nicely camouflaged Mi-24 was the only operational Mi-24 and was photographed during a low-level flight through the Tour Canyon, which is south of Petrovec Air Base. (Bram Marijnissen)*

## History

After the second world war, Macedonia joined the Federal People's Republic of Yugoslavia as a federal unit. During the referendum on 8 September 1991, the citizens chose for the Republic of Macedonia to be an independent democratic state. Since 12 February 2019 the country is officially named North Macedonia and a long-lasting conflict with Greece, which always saw the name Macedonia as a claim on its own territory, has ended. The Air Force still uses the name Macedonian Air Force which also can be seen on the Mi-8 and Mi-17 helicopters. The country is a member of the United Nations and since December 2005 also a candidate to join the European Union.

After independence in 1991 more than 35 aircraft of the former Yugoslav Army which were based at Petrovec Air Base were distributed all over the Federal Republic of Yugoslavia. The Macedonian Air Force and Air Defence Forces was established on 10 June 1992 with one UTVA-66 and four UTVA-75 two-seat trainers which were leased from the Macedonian Aeronautical Union. In 1994 they acquired four Mi-17 Hip Helicopters from Ukraine but due to a UN arms embargo these helicopters were delivered with civil registrations. In 1996 Macedonia was excluded from the UN arms embargo and the helicopters received military serials and a nice camouflage scheme.

In 1995 four Zlin-242L trainers were acquired. In March 2001 the crisis began between Albanian terrorists and the Macedonian Government and in no time the Macedonian Air Force and Air Arms expanded with 20 aircraft. On 23 March 2001 Ukraine donated four Mi-8MT helicopters and as part of an old agreement also two Mi-24V Hind combat helicopters were delivered. Out of solidarity Greece also donated two UH-1H Hueys on that same day! Within a few months another six Mi-24 Hind helicopters were delivered from Ukraine. In June 2001 the first combat fighters arrived, three Su-25s and one Su-25UB. At the end of 2001 another two Mi-24 Hind helicopters arrived from Ukraine. In 2003 a four-seat Zlin-143L and one more two-seat Zlin-242L were acquired.

## Present

At this moment the air assets of the Macedonian Government consist of four parts: Pilot Training Centre (PTC), Air Force, Ministry of Interior and the Protection and Rescue Directorate.

The Protection and Rescue Directorate operates three civilian registered AT-802AF which are based at Skopje/Petrovec. Their only task is firefighting. During our visit they flew one mission after the other. The missions are mostly being done by retired Air Force personnel.

The Ministry of Interior operates one civilian registered Learjet 60 for VIP/Government transportation which is based at Skopje/Petrovec. Also the Policija belongs to this unit. They operate one Mi-17 and two Mi-171s out of Skopje/Petrovec. Other helicopters operated by the Policija are one AB-206, one AB-212 and one Bell-412, but these helicopters are based at nearby Idrizovo where the Police Training Center is based.

The Air Force had to withdraw the four Su-25 Frogfoots during 2004 according to the draft agreement to join NATO. During the years also six Mi-24s were withdrawn from use. Those Mi-24s and Su-25s are still in "good" shape on a dispersal next to the operational ramp and it's unknown what will happen to them. One UH-1H Huey was sent to Greece for major overhaul but the costs couldn't be paid so this helicopter is still at Stefanovikion, Greece. The other Huey is stored on a platform and won't fly ever again.

Of the six operational Hinds, five are awaiting parts for overhaul so only one Hind is really flyable at the moment. Every 50 flying hours the Mi-24s are overhauled at Skopje, but every 2,000 flying hours the Mi-24s receive a major overhaul in Ukraine. Unfortunately two of the four Mi-17s have crashed which leaves only two operational Mi-17s but luckily all four Mi-8s are fully operational, just like the civil registered four-seat Zlin-143. The nicely camouflaged An-2, including shark mouth, hasn't flown for several years but they want to make it operational again. Probably it will take a long time before it flies again, if ever.

## Pilot Training Centre (PTC)

In 2011 the Israeli company Elbit systems opened a completely new pilot training centre (PTC) at Skopje/Petrovec. The PTC uses the five two-seat Zlin-242s and acquired four Bell 206 training helicopters in 2013. The PTC is since then recruiting pilots according to Israeli philosophy. Elbit is working very closely with the MOD and every two years it's discussed if the contract will be expanded or the MOD will take over the PTC. The current contract ends at the end of 2020. The PTC is trying to recruit pilots for other countries but it's hard because North Macedonia isn't part of NATO.

One of the countries where the PTC is trying to get into business is Bosnia Herzegovina because they need 35 pilots! Countries like Austria, Cameroon and Nigeria are investigating if the PTC is suitable for them. The PTC is FAA standard so they can train civilian pilots but at this moment there is no market, maybe in the future there will be. The PTC has been introduced to NATO in Brussels so hopefully more countries are going to use the PTC.

A big advantage is that if there is a problem, Elbit solves it within a few days. If the MOD has to solve it, it would take weeks or months. Another big advantage is that due to having their own fuel tanks, there is always fuel to fly the Zlins and helicopters. The question is how this will turn out if the MOD is going to take over the PTC.

After finishing the military academy students go to the PTC and fly ten hours in the Zlin 143 just to see if they are feeling comfortable with flying. After this they will have the basic training which is 40 flying hours in the Zlin 242, except landings. If the student succeeds the basic training the next step is flying the Bell 206. The first 50 flying hours are basic training and this is followed by the advanced training of 180 flying hours, including 75 flying hours of night flying. Also tactical missions are done to see what the students are capable of. At the end of this stage the choice has to be made if a pilot will go to the Police or Air Force and which helicopter he is going to fly.

For the Air force the options are the Transport squadron, flying the Mi-8 / Mi-17, or the Attack Squadron, flying the Mi-24. For the Police various types are possible. Before flying the real helicopters, several hours have to be spent in simulators to see if the right choice has been made. The

screening is very strict but when they pass they'll be ready for it. It's very hard to train a good pilot, out of every 1,000,000 people only 1 is capable of being a military pilot! Before the PTC acquired the four Bell 206 training helicopters, pilots went directly from the Zlin to the Mi-8/Mi-17.

The PTC also has two advanced full-motion tactical simulators, one for the Mi-8/Mi-17 and the other one for the Mi-24. The simulators are equipped with advanced avionics providing an optimal training environment. At the moment of our visit pilots from Poland and Cameroon were using the simulators and they were very satisfied with them. Later this year Bulgarian pilots will follow. Also PTC is trying to expand the use of the simulators to countries like Croatia and Serbia.

## Future

The Pilot Training Center is a well organised organization, hoping for many more customers in the future so there is more money to invest in the PTC and the Air Force. Their Zlins and Bells are well maintained and flyable for many more years. The transport helicopters of the Air Force are still in good shape and flyable condition but they are getting older which is the same for the Mi-24 Hind helicopters, except these are having problems with getting spare parts and only one is operational at the moment. They are looking for new helicopters but changing from eastern build to western build helicopters is not easy and will cost a lot of money. It is not mandatory but highly recommended! So the future of the Macedonian Air Force is unclear.

## Exercises

The Macedonian Air Force have taken part with helicopters in exercise Adriatic Strike which has been held for several years in Slovenia. Last year they attended with a Mi-8 helicopter. A Mi-24 should have gone to Slovenia also, but it had a problem and cancelled its participation. Last year they were also observers during Anatolian Eagle. They want to participate in this exercise with helicopters but the main problem is the airworthiness of the helicopters and of course money. By joining NATO they're hoping it's easier to get spare parts for the helicopters and to make them all operational again so they can participate in more international helicopter exercises.

We would like to thank everybody within the Macedonian Ministry of Defence, Macedonian Air Force and the Pilot



Since 2013 the Pilot Training Centre (PTC) has been operating four of these Bell 206B-3s for training pilots to operate the Mi-8, Mi-17 or Mi-24. (Rene Slegers)



The Transport Helicopter Squadron operates four Mi-8s and two Mi-17s and all of them have this very effective camouflage. Unfortunately two Mi-17s have been lost by crashes. (Rene Slegers)

Training Centre (PTC) who made this fantastic visit and air-to-air flight possible.

#### Serial overview

##### Operational ramp:

302, 303	Mi-17	Transport Helicopter Squadron
305, 306	Mi-8MT	Transport Helicopter Squadron
308	Mi-8MTV-2	Transport Helicopter Squadron
210	Mi-24V	Combat Helicopter Squadron

##### Maintenance Hangar:

307	Mi-8MT	Transport Helicopter Squadron
201, 205	Mi-24V	Combat Helicopter Squadron
Z3-DCS	Zlin 143	Training Flight

##### Stored outside:

150	An-2	Training Flight
321	UH-1H	wfu
202, 207, 209	Mi-24V	Combat Helicopter Squadron

##### Stored in dispersal:

120	Su-25UB	wfu
121, 122, 123	Su-25	wfu
203, 204	Mi-24V	wfu
206, 208	Mi-24V	wfu
211, 212	Mi-24K	wfu

##### PTC

401, 402	Bell 206B-3	Pilot Training Center
403, 404	Bell 206B-3	Pilot Training Center
102, 103	Zlin 242L	Pilot Training Center
104, 105, 106	Zlin 242L	Pilot Training Center

##### Flying:

MAP-7711	Mi-171E	Police Aviation Unit
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##### Civilian side

Z3-BGT	AT-802AF	Protection and Rescue Directorate
Z3-BGU	AT-802AF	Protection and Rescue Directorate
Z3-BGV	AT-802AF	Protection and Rescue Directorate



After major maintenance by Zlin in Czechia the old blue and white colours will be replaced by the colours of the Macedonian Flag. During our visit two had the old and three had the new colour scheme. (Bram Marijnissen)



*It is sad to see this nice An-2 in this state. Luckily it should become operational again. (Rene Slegers)*



*A nice line with five out of six beautifully camouflaged Mi-8s and Mi-17s. (Rene Slegers)*



*These Mi-24s are waiting for better times. (Rene Slegers)*

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In May 2019 Japan Airlines introduced a special “Arashi Hawaii Jet” livery on Boeing 787-9 Dreamliner JA873J, in support of the boy band from Japan. The group Arashi is on their 20th anniversary tour, named the “Arashi Anniversary Tour 5×20”. (Tokyo-Narita, 9 November 2019, René Verschuur)



On 17 October 2019 Etihad Airways launched its brand new Boeing 787-9 Dreamliner A6-BND with a striking Manchester City colour scheme to highlight its sponsorship with Pep Guardiola’s side. (Amsterdam-Schiphol, 10 November 2019, Joris Witsen)



China Eastern Airlines is flying already two years with this livery on A330 B-6507 to promote the Disneyland resort in Shanghai, which opened in June 2016. (Shanghai-Pudong, 6 October 2019, Anton Homma)



*Just after the first Italian build F-35A for the Netherlands was delivered, F-010 made its first flight on 4 November 2019 from Cameri. (Maurizio Riva)*



*March 2019 the 302 Hikotai flying F-4s from Hyakuri was disbanded and re-established at Misawa flying F-35A, which was flying the Lightning II for almost a year with Rinji 302 Hikotai. (Misawa, 11 November 2019, Hans Jacobs)*



*Exercise Blue Flag provided some good photo opportunities of nice aircraft, like the seventeenth Israeliian F-35i, the 926 of 140th sq. (Ovda, 11 November 2019, Jim Walg)*