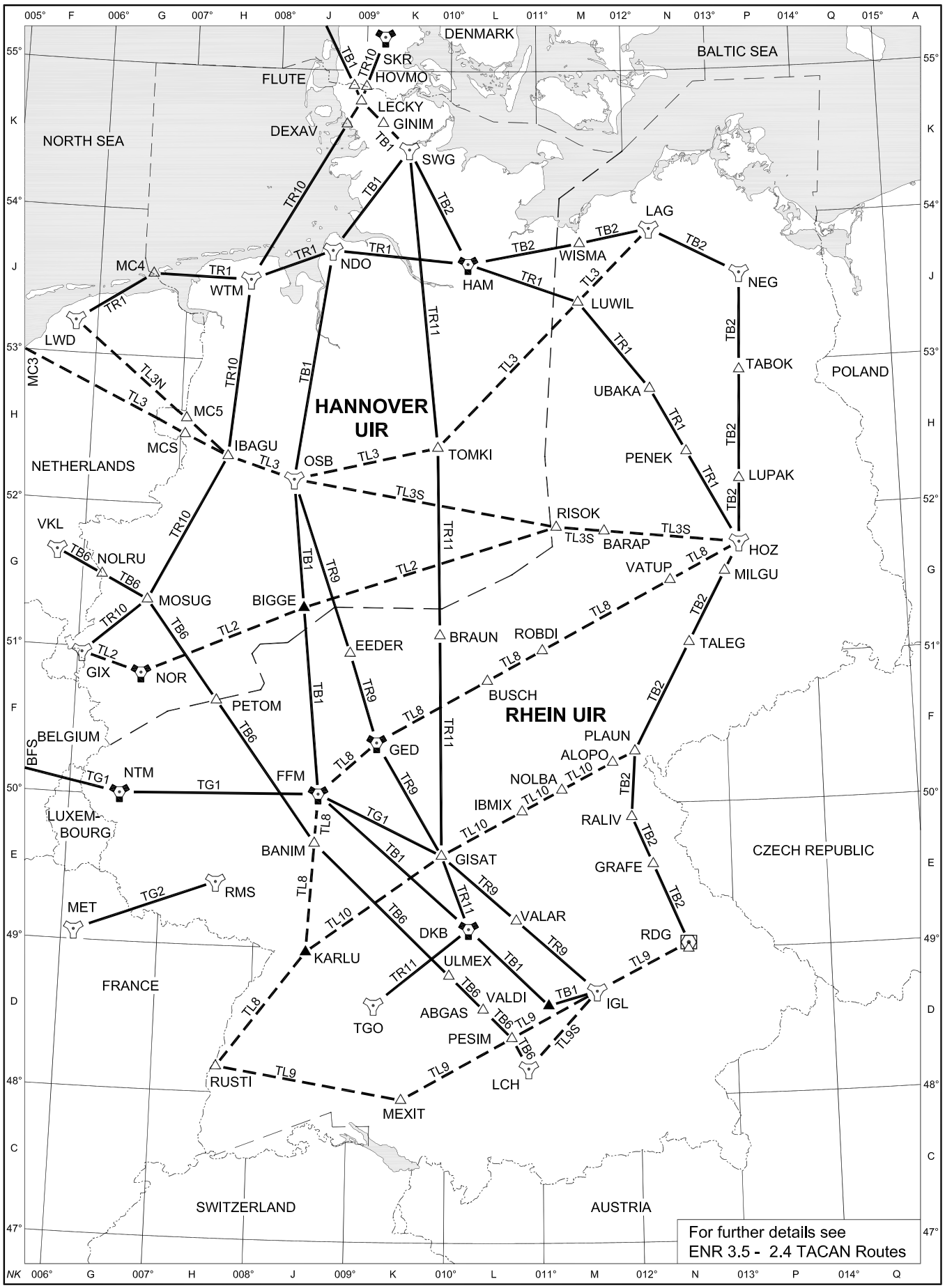
AFOD

TACAN Routes
Europe except France

Compiled 03APR14

RK
4/3/2014

TACAN Route Structure



CHANGE: EDITORIAL

2. TACAN-Strecken

2.1 Allgemeines

Zur Vereinfachung der Flugplanung von OAT-Flügen sind im oberen Luftraum der Bundesrepublik Deutschland TACAN-Strecken eingerichtet. TACAN-Strecken verbinden TACAN-Anlagen, die für die allgemeine Navigation von OAT-Flügen genutzt werden. Sie sind an das TACAN-Streckennetz der Niederlande, Belgien und Dänemarks angeschlossen.

Die TACAN-Strecken sind mit Farbcodes und Ziffern, Zwischenverbindungen mit dem Buchstaben „L“ und einer Ziffer gekennzeichnet.

Strecken, die in das TACAN-Streckensystem führen bzw. dieses verlassen, werden in der Freigabe genau bezeichnet.

2.2 Verfahren

2.2.1 OAT-Flüge können sowohl entlang der TACAN-Strecken oder Teilen davon geplant und durchgeführt werden als auch außerhalb dieser. Sie sind entsprechend der Flugrichtung in „geraden“ oder „ungeraden“ Halbkreisflughöhen zu planen.

2.2.2 „Gerade“ Halbkreisflughöhen umfassen die Flugflächen: FL 260, 280, 300, 320, 340, 360, 380, 400, 430, 470 etc.

„Ungerade“ Halbkreisflughöhen umfassen die Flugflächen: FL 250, 270, 290, 310, 330, 350, 370, 390, 410, 450 etc.

2.3 Sonderverfahren

2.3.1 OAT-Flüge außerhalb von TACAN-Strecken in/aus den/dem Zuständigkeitsbereich München ACC innerhalb der UIR Rhein (siehe Luftfahrthandbuch Deutschland ENR 2.1)

OAT-Flüge, die außerhalb von TACAN-Strecken in den Teil des Zuständigkeitsbereiches München ACC innerhalb der UIR Rhein einfliegen (siehe Luftfahrthandbuch Deutschland ENR 2.1), oder diesen verlassen, sind über einen der nachfolgenden Ein-/Ausflugpunkte zu planen. Die jeweiligen Ein-/Ausflugpunkte sind in Feld 15 des Flugplans anzugeben.

GRAFE	49°34,93′N 012°10,57′E
VALAR	49°12,13′N 010°44,12′E
ULMEX	48°49,45′N 010°02,18′E
MEXIT	47°58,40′N 009°33,22′E
PLAUN	50°21,30′N 012°00,45′E
BUSCH	50°50,60′N 010°25,77′E

Einflüge über VALAR sind nur erlaubt für Flüge zu den Flugplätzen Ingolstadt/Manching, Neuburg und Erding, bzw. für Flüge, die nach den Meldepunkten IGL, NEU und ERD VFR-Flugprofile planen.

Off-Route Flüge mit Ziel Lechfeld sind ausschließlich über die Ein-/Ausflugpunkte ULMEX oder MEXIT zu planen.

Bei Einflügen über ULMEX ist anschließend der Meldepunkt LCH im Feld 15 des Flugplans anzugeben.

Direktführungen werden auf Anfrage durch die Flugsicherung in Abhängigkeit von der Verkehrslage ermöglicht.

2. TACAN-Routes

2.1 General

For the simplification of flight planning of OAT flights, TACAN routes have been established in the upper airspace of the Federal Republic of Germany. TACAN routes connect TACAN facilities used for the general navigation of OAT flights. They are connected to the TACAN route system of the Netherlands, Belgium and Denmark.

The TACAN routes are marked with color codes and figures, intermediate connections are marked with the letter “L” and a number.

Routes into and out of TACAN route system will be specified in the clearance.

2.2 Procedures

2.2.1 OAT flights may be planned and conducted along TACAN routes or portions thereof as well as outside the same. They shall be planned according to the direction of flight in “even” or “odd” semicircular cruising levels.

2.2.2 “Even” semicircular cruising levels comprise the flight levels: FL 260, 280, 300, 320, 340, 360, 380, 400, 430, 470 etc.

„Odd“ semicircular cruising levels comprise the flight levels: FL 250, 270, 290, 310, 330, 350, 370, 390, 410,450 etc.

2.3 Special Procedures

2.3.1 OAT Flights outside of TACAN Routes, to/from area of responsibility of ACC München within UIR Rhein (see AIP Germany, ENR 2.1)

OAT flights entering or leaving the area of responsibility of ACC München within Rhein UIR (see AIP Germany, ENR 2.1) outside of TACAN routes shall be planned via one of the following entry/exit points. The respective entry/exit points shall be entered in item 15 of the flight plan.

GRAFE	49°34.93′N 012°10.57′E
VALAR	49°12.13′N 010°44.12′E
ULMEX	48°49.45′N 010°02.18′E
MEXIT	47°58.40′N 009°33.22′E
PLAUN	50°21.30′N 012°00.45′E
BUSCH	50°50.60′N 010°25.77′E

Entries via VALAR are only permitted for flights to the aerodromes Ingolstadt/Manching, Neuburg and Erding and / or for flights intending to proceed in accordance with VFR after having passed reporting points.

Off route flights in direction to Lechfeld shall be planned only via the entry/exit points ULMEX or MEXIT.

For entries via ULMEX LCH, as the following reporting point, shall be inserted in item 15 of the flight plan.

Direct routing will be provided by the Air Traffic control in accordance with the traffic situation.

2.3.2 Ein- und Ausflugpunkte UIR Rhein nach / von Frankreich

OAT-Flüge, zwischen Frankreich und der UIR Rhein außerhalb der TACAN-Strecken (COM-B), sind über einen der folgenden Ein-/Ausflugpunkte zu planen. Der jeweilige Ein-/Ausflugpunkt ist in Feld 15 des Flugplans anzugeben:

RSL02 - R-079 / 36 DME MET 49°10,50′N 007°02,00′E
RUSTI - R-034 / 18 DME CLR 48°10,60′N 007°39,60′E

2.3.3 Ein- und Ausflugpunkte UIR Hannover-UIR Rhein

Soweit möglich, ist militärischer Einsatzluftverkehr aus dem UIR Hannover in das UIR Rhein oder entgegengesetzt so zu planen, dass einer der folgenden Meldepunkte genutzt wird:

WISMA	53°49,53′N 011°29,13′E
LUWIL	53°25,55′N 011°27,56′E
RISOK	51°53,45′N 011°11,35′E

2.3.2 Entry and Exit Points Rhein UIR to / from France

OAT-flights, between France and the UIR Rhein which are conducted outside of TACAN routes, shall be planned via one of the following entry/exit points. The respective entry/exit points shall be entered in item 15 of the flight plan:

RSL02 - R-079 / 36 DME MET 49°10.50′N 007°02.00′E
RUSTI - R-034 / 18 DME CLR 48°10.60′N 007°39.60′E

2.3.3 Entry and Exit Points Hannover UIR-Rhein UIR

As far as possible, military operational air traffic leaving the Hannover UIR and entering the Rhein UIR, or vice versa, shall be planned so as to use one of the following reporting points:

WISMA	53°49.53′N 011°29.13′E
LUWIL	53°25.55′N 011°27.56′E
RISOK	51°53.45′N 011°11.35′E

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN BLUE ONE **(TB 1)**						
△ **IGL** Ingolstadt TACAN 48°43.08′N 011°34.18′E	252	254.0	20.8	FL 450 / FL 250	↑ ↓	
▲ **VALDI** R-252 / 21 DME IGL 48°37.28′N 011°04.11′E	072 312	073.6 313.9	45.4	FL 450 / FL 250	↑ ↓	
△ **DKB** Dinkelsbühl DVORTAC 49°08.57′N 010°14.30′E	132 309	133.3 311.8	83.1	FL 450 / FL 250	↑ ↓	
△ **FFM** Frankfurt DVORTAC 50°03.23′N 008°38.23′E	129 353	130.6 354.3	76.8	FL 450 / FL 250	↑ ↓	
▲ **BIGGE** R-207 / 77 DME WUN 51°19.53′N 008°25.97′E	173 353	174.1 354.1	52.8	FL 450 / FL 250	↑ ↓	
△ **OSB** Osnabrück TACAN 52°12.01′N 008°17.13′E	173 007	174.0 007.9	95.2	FL 450 / FL 250	↑ ↓	
△ **NDO** Nordholz TACAN 53°46.14′N 008°39.21′E	187 035	188.2 035.8	51.7	FL 450 / FL 250	↑ ↓	
△ **SWG** Schleswig TACAN 54°27.81′N 009°30.99′E	215 313	216.5 314.8	15.3	FL 450 / FL 250	↑ ↓	
△ **GINIM** R-313 / 15 DME SWG 54°38.54′N 009°12.35′E	133 313	134.6 314.6	12.9	FL 450 / FL 250	↑ ↓	
△ **LECKY** R-313 / 28 DME SWG 54°47.54′N 008°56.53′E	133 333	134.4 334.5	7.0	FL 450 / FL 250	↑ ↓	
△ **FLUTE** (UIR Boundary) R-317 / 35 DME SWG 54°53.83′N 008°51.33′E	153	154.5				
△ MINTA						See MIL AIP Denmark for further routing.

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN BLUE TWO (TB 2)						
△ **SWG** Schleswig TACAN 54°27.81′N 009°30.99′E	151	152.2	52.7	FL 450 / FL 250	↓ ↑	
△ **HAM** Hamburg DVORTAC 53°41.13′N 010°12.30′E	331 077	332.8 079.0	46.4	FL 450 / FL 250	↓ ↑	
△ **WISMA** R-257 / 29 DME LAG 53°49.53′N 011°29.13′E	257 076	260.1 078.4	29.0	FL 450 / FL 250	↓ ↑	
△ **LAG** Laage TACAN 53°55.19′N 012°17.19′E	256 115	259.1 117.1	41.0	FL 450 / FL 250	↓ ↑	
△ **NEG** Neubrandenburg TACAN 53°36.28′N 013°18.52′E	295 179	297.9 182.1	39.8	FL 450 / FL 250	↓ ↑	
△ **TABOK** R-179 / 40 DME NEG 52°56.60′N 013°16.09′E	359 179	002.1 182.1	44.6	FL 450 / FL 250	↓ ↑	
△ **LUPAK** R-359 / 26 DME HOZ 52°12.07′N 013°13.45′E	359 179	002.1 182.1	26.1	FL 450 / FL 250	↓ ↑	
△ **HOZ** Holzdorf TACAN 51°46.00′N 013°11.94′E	359 206	002.0 208.5	13.3	FL 450 / FL 250	↓ ↑	
△ **MILGU** R-206 / 13 DME HOZ 51°34.32′N 013°01.78′E	026 205	028.4 208.3	32.7	FL 450 / FL 250	↓ ↑	
△ **TALEG** R-206 / 46 DME HOZ 51°05.56′N 012°37.18′E	025 205	028.0 208.0	50.1	FL 450 / FL 250	↓ ↑	
△ **PLAUN** R-001 / 40 DME GRF 50°21.30′N 012°00.45′E	025 181	027.5 183.9	27.0	FL 450 / FL 250	↓ ↑	
△ **RALIV** R-001 / 13 DME GRF 49°54.41′N 011°57.64′E	001 154	003.8 156.6	21.2	FL 450 / FL 250	↓ ↑	
△ **GRAFE** R-123 / 11 DME GRF 49°34.93′N 012°10.57′E	334 155	336.8 156.9	35.3	FL 450 / FL 250	↓ ↑	
△ **RDG** (Roding DVOR/DME) R-060 / 43 DME IGL 49°02.42′N 012°31.61′E	335	337.2				

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN BLUE SIX **(TB 6)**						
△ **LCH** Lechfeld TACAN 48°11.43′N 010°51.54′E	329	331.3	14.3	FL 450 / FL 250	↑ ↓	
△ **PESIM** R-329 / 14 DME LCH 48°23.95′N 010°41.23′E	149 313	151.1 314.8	16.6	FL 450 / FL 250	↑ ↓	
△ **ABGAS** R-320 / 31 DME LCH 48°35.62′N 010°23.50′E	133 313	134.6 314.6	19.8	FL 450 / FL 250	↑ ↓	
△ **ULMEX** R-201 / 21 DME DKB 48°49.45′N 010°02.18′E	133 312	134.3 314.3	77.6	FL 450 / FL 250	↑ ↓	
△ **BANIM** R-182 / 20 DME FFM 49°43.10′N 008°36.53′E	132 323	133.2 324.2	71.2	FL 450 / FL 250	↑ ↓	
△ **PETOM** R-106 / 33 DME NOR 50°40.48′N 007°31.13′E	143 322	143.4 323.4	50.2	FL 450 / FL 250	↑ ↓	
△ **MOSUG** R-047 / 34 DME GIX 51°20.55′N 006°43.38′E	142 296	142.8 296.7	21.4	FL 450 / FL 250	↑ ↓	
△ **NOLRU** (UIR Boundary) R-010 / 33 DME GIX 51°30.06′N 006°12.84′E	116	116.3				
△ VKL						See MIL AIP Netherlands for further routing.
TACAN GREEN ONE **(TG 1)**						
△ **GISAT** R-338 / 32 DME DKB 49°38.61′N 009°57.01′E	294	296.3	56.6	FL 450 / FL 250	↑ ↓	
△ **FFM** Frankfurt DVORTAC 50°03.23′N 008°38.23′E	114 267	115.3 269.2	81.5	FL 450 / FL 250	↑ ↓	
△ **NTM** Nattenheim VORTAC 50°00.95′N 006°31.92′E	087 280	087.6 281.4	16.1	FL 450 / FL 250	↑ ↓	
NTM16 (UIR Boundary) R-281 / 16 DME NTM 50°04.08′N 006°07.43′E	100	101.1				
△ BFS						See MIL AIP Belgium for further routing.

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN RED ONE (TR 1)						
△ **HOZ** Holzdorf TACAN 51°46.00′N 013°11.94′E	329	331.8	43.0	FL 450 / FL 250	↑ ↓	
△ **PENEK** R-329 / 43 DME HOZ 52°23.75′N 012°38.80′E	149 329	151.4 331.4	29.7	FL 450 / FL 250	↑ ↓	
△ **UBAKA** R-329 / 73 DME HOZ 52°49.74′N 012°15.35′E	149 319	151.1 321.6	46.0	FL 450 / FL 250	↑ ↓	
△ **LUWIL** R-223 / 42 DME LAG 53°25.55′N 011°27.56′E	139 287	140.9 289.7	47.5	FL 450 / FL 250	↑ ↓	
△ **HAM** Hamburg DVORTAC 53°41.13′N 010°12.30′E	107 274	108.7 275.8	55.5	FL 450 / FL 250	↑ ↓	
△ **NDO** Nordholz TACAN 53°46.14′N 008°39.21′E	094 247	094.6 249.1	35.6	FL 450 / FL 250	↑ ↓	
△ **WTM** Wittmund TACAN 53°33.26′N 007°43.51′E	067 270	068.4 271.5	40.0	FL 450 / FL 250	↑ ↓	
△ **MC4** (UIR Boundary) R-055 / 37 DME LWD 53°34.00′N 006°36.50′E	090	090.6				
△ LWD						See MIL AIP Netherlands for further routing.

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN RED NINE **(TR 9)**						TR 9 shall be used for north-westbound flights only. Adherence to direction does not apply to flights bound for Ingolstadt/Manching, Neuburg and Erding and / or to flights continuing to proceed from these locations according to VFR.
△ **IGL** Ingolstadt TACAN 48°43.08′N 011°34.18′E	309	311.7	44.0	FL 450 / FL 250	↓	
△ **VALAR** R-309 / 44 DME IGL 49°12.13′N 010°44.12′E	129 309	131.1 311.0	40.6	FL 450 / FL 250	↓	
△ **GISAT** R-338 / 32 DME DKB 49°38.61′N 009°57.01′E	129 328	130.5 329.8	53.5	FL 450 / FL 250	↓	
△ **GED** Gedern DVORTAC 50°24.72′N 009°14.95′E	148 341	149.3 342.6	38.4	FL 450 / FL 250	↓	
△ **EEDER** R-341 / 38 DME GED 51°01.28′N 008°56.76′E	161 339	162.4 341.0	75.0	FL 450 / FL 250	↓	
△ **OSB** Osnabrück TACAN 52°12.01′N 008°17.13′E	159	160.5				

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN RED TEN **(TR 10)**						
△ **GIX** Geilenkirchen TACAN 50°57.80′N 006°02.71′E	048	048.1	34.3	FL 450 / FL 250	↓ ↑	
△ **MOSUG** R-047 / 34 DME GIX 51°20.55′N 006°43.38′E	228 026	228.6 026.5	67.5	FL 450 / FL 250	↓ ↑	
△ **IBAGU** R-264 / 70 DME WUN 52°20.70′N 007°32.39′E	206 004	207.1 005.2	73.0	FL 450 / FL 250	↓ ↑	
△ **WTM** Wittmund TACAN 53°33.26′N 007°43.51′E	184 029	185.4 029.5	74.9	FL 450 / FL 250	↓ ↑	
△ **DEXAV** R-290 / 27 DME SWG 54°38.04′N 008°46.90′E	209 029	210.3 30.3	11.0	FL 450 / FL 250	↓ ↑	
△ **LECKY** R-313 / 28 DME SWG 54°47.54′N 008°56.53′E	209 018	210.5 019.1	6.3	FL 450 / FL 250	↓ ↑	
△ **HOVMO** (UIR Boundary) R-198 / 22 DME SKR 54°53.52′N 009°00.12′E	198	199.1				
△ SKR						See MIL AIP Denmark for further routing.
TACAN RED ELEVEN **(TR 11)**						
△ **TGO** Tango TACAN 48°37.10′N 009°15.55′E	049	050.5	50.0	FL 450 / FL 250	↓ ↑	
△ **DKB** Dinkelsbühl DVORTAC 49°08.57′N 010°14.30′E	229 338	231.3 339.5	32.1	FL 450 / FL 250	↓ ↑	
△ **GISAT** R-338 / 32 DME DKB 49°38.61′N 009°57.01′E	158 357	159.3 359.2	90.5	FL 450 / FL 250	↓ ↑	
△ **BRAUN** R-028 / 51 DME GED 51°09.00′N 009°55.00′E	177 357	179.2 358.9	76.9	FL 450 / FL 250	↓ ↑	
△ **TOMKI** R-093 / 17 DME WUN 52°25.82′N 009°52.63′E	177 352	178.9 354.1	122.9	FL 450 / FL 250	↓ ↑	
△ **SWG** Schleswig TACAN 54°27.81′N 009°30.99′E	172	173.8				

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN LINK TWO **(TL 2)**						
△ **RISOK** R-274 / 75 DME HOZ 51°53.45′N 011°11.35′E	250	252.9	108.5	FL 450 FL 250	↑ ↓	
▲ **BIGGE** R-207 / 77 DME WUN 51°19.53′N 008°25.97′E	070 245	070.7 246.8	71.9	FL 450 FL 250	↑ ↓	
△ **NOR** Nörvenich VORTAC 50°50.44′N 006°41.65′E	065 286	065.4 286.9	25.7	FL 450 FL 250	↑ ↓	
△ **GIX** Geilenkirchen TACAN 50°57.80′N 006°02.71′E	106	106.4				
TACAN LINK THREE **(TL 3)**						
△ MC3 LWD53 (UIR Boundary) R-136 / 53 DME LWD 52°34.45′N 006°44.85′E	115	116.1	12.4	FL 450 FL 250	↓ ↑	See MIL AIP Netherlands for further routing.
△ **MCS** R-132 / 65 DME LWD 52°29.00′N 007°03.00′E	295 114	296.3 114.6	19.8	FL 450 FL 250	↓ ↑	
△ **IBAGU** R-264 / 70 DME WUN 52°20.70′N 007°32.39′E	294 106	295.0 107.3	28.8	FL 450 FL 250	↓ ↑	
△ **OSB** Osnabrück TACAN 52°12.01′N 008°17.13′E	286 075	287.9 076.1	60.2	FL 450 FL 250	↓ ↑	
△ **TOMKI** R-093 / 17 DME WUN 52°25.82′N 009°52.63′E	255 042	257.4 043.2	82.9	FL 450 FL 250	↓ ↑	
△ **LUWIL** R-223 / 42 DME LAG 53°25.55′N 011°27.56′E	222 042	224.5 044.5	41.9	FL 450 FL 250	↓ ↑	
△ **LAG** Laage TACAN 53°55.19′N 012°17.19′E	222	225.2				

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN LINK THREE NORTH (TL 3N)						
△ LWD						
						See MIL AIP Netherlands for further routing.
LWD56 (UIR Boundary) R-128 / 56 DME LWD 52°38.13′N 006°57.46′E	124	125.3	4.6	FL 450 / FL 250	↓ ↑	
△ **MC5** R-128 / 61 DME LWD 52°35.50′N 007°03.55′E	304 129	305.4 129.8	23.0	FL 450 / FL 250	↓ ↑	
△ **IBAGU** R-264 / 70 DME WUN 52°20.70′N 007°32.39′E	309	310.2				
TACAN LINK THREE SOUTH (TL 3S)						
△ **OSB** Osnabrück TACAN 52°12.01′N 008°17.13′E	098	098.7	109.2	FL 450 / FL 250	↓ ↑	
△ **RISOK** R-274 / 75 DME HOZ 51°53.45′N 011°11.35′E	278 093	280.9 094.9	19.7	FL 450 / FL 250	↓ ↑	
△ **BARAP** R-274 / 55 DME HOZ 51°51.70′ 011°43.01′E	273 093	275.3 095.3	55.5	FL 450 / FL 250	↓ ↑	
△ **HOZ** Holzdorf TACAN 51°46.00′N 013°11.94′E	273	276.5				

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN LINK EIGHT (TL 8)						
△ **RUSTI** R-034 / 18 DME CLR 48°10.60′N 007°39.60′E	035	036.1	59.5	FL 450 / FL 250	↓ ↑	
▲ **KARLU** R-125 / 47 DME RMS 48°58.45′N 008°32.85′E	215 002	216.8 003.1	44.8	FL 450 / FL 250	↓ ↑	
△ **BANIM** R-182 / 20 DME FFM 49°43.10′N 008°36.53′E	182 002	183.1 003.1	20.2	FL 450 / FL 250	↓ ↑	
△ **FFM** Frankfurt DVORTAC 50°03.23′N 008°38.23′E	182 046	183.1 047.4	31.9	FL 450 / FL 250	↓ ↑	
△ **GED** Gedern DVORTAC 50°24.72′N 009°14.95′E	226 058	227.9 059.9	52.0	FL 450 / FL 250	↓ ↑	
△ **BUSCH** R-058 / 52 DME GED 50°50.42′N 010°25.93′E	238 059	240.8 060.8	25.8	FL 450 / FL 250	↓ ↑	
△ **ROBDI** R-058 / 78 DME GED 51°02.88′N 011°01.57′E	239 059	241.3 061.3	60.0	FL 450 / FL 250	↓ ↑	
△ **VATUP** R-240 / 32 DME HOZ 51°31.18′N 012°25.81′E	239 060	242.4 062.4	32.3	FL 450 / FL 250	↓ ↑	
△ **HOZ** Holzdorf TACAN 51°46.00′N 013°11.94′E	240	243.0				

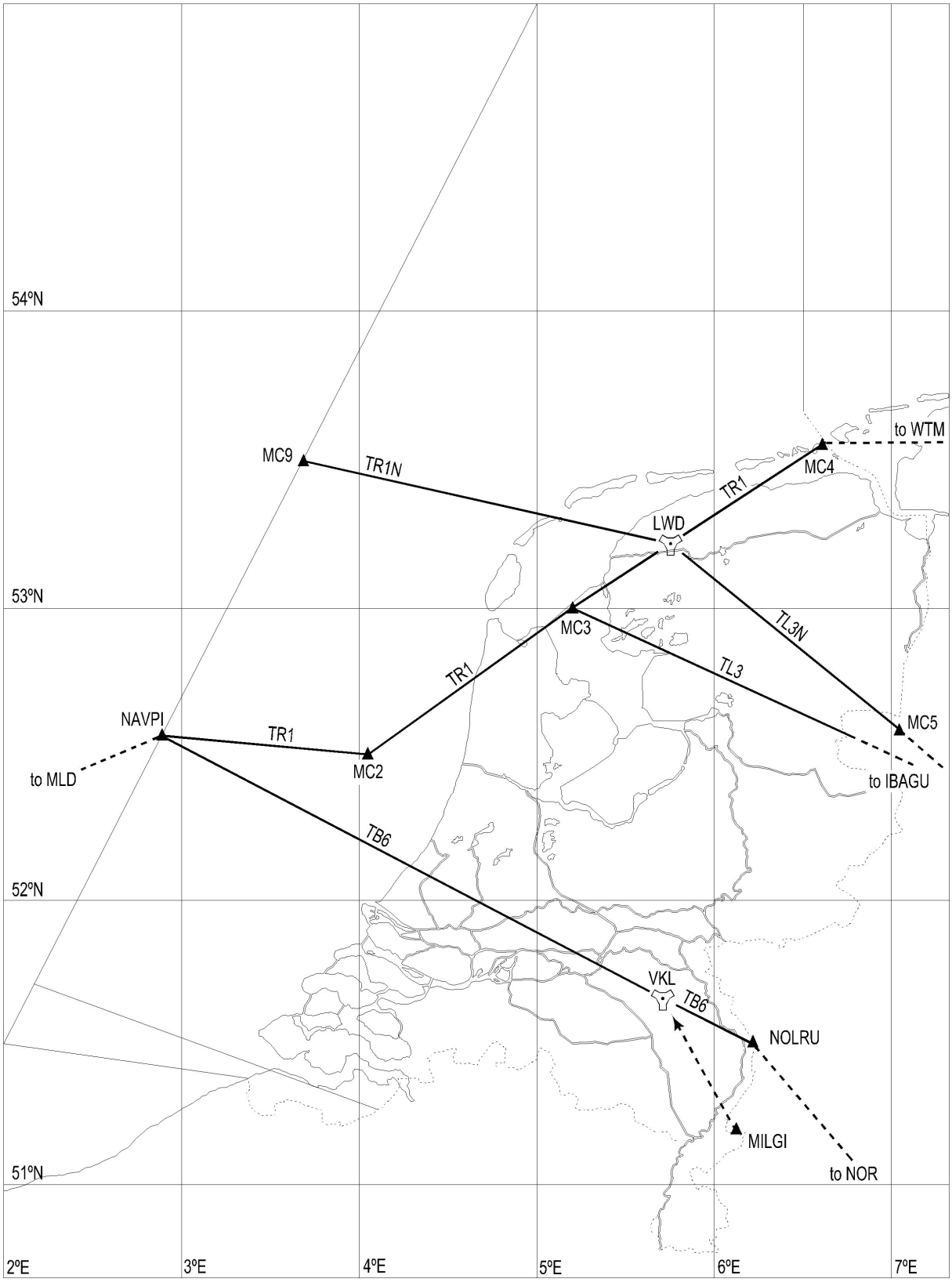
2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN LINK NINE (TL 9)						
△ **RUSTI** R-034 / 18 DME CLR 48°10.60′N 007°39.60′E	098	098.4	77.2	FL 450 / FL 250	↓ ↑	
△ **MEXIT** R-161 / 40 DME TGO 47°58.40′N 009°33.22′E	278 059	279.8 060.3	52.2	FL 450 / FL 250	↓ ↑	
△ **PESIM** R-329 / 14 DME LCH 48°23.95′N 010°41.23′E	239 059	241.1 061.1	40.0	FL 450 / FL 250	↓ ↑	
△ **IGL** Ingolstadt TACAN 48°43.08′N 011°34.18′E	239 060	241.8 062.6	42.6	FL 450 / FL 250	↓ ↑	
△ **RDG** (Roding DVOR/DME) R-060 / 43 DME IGL 49°02.42′N 012°31.61′E	240	243.3				
TACAN LINK NINE SOUTH (TL 9S)						
△ **LCH** Lechfeld TACAN 48°11.43′N 010°51.54′E	040	041.6	42.5	FL 450 / FL 250	↓ ↑	
△ **IGL** Ingolstadt TACAN 48°43.08′N 011°34.18′E	220	222.1				

2.4 TACAN Routes

Route designator Identification Name of Navigation Aid or Radial/DME to Navigation Aid Coordinates	Magnetic Track VAR 2012.0 in Degree	Initial True Track in Degree	Great Circle Distance in NM	Upper Limit / Lower Limit	Direction of Cruising Levels Odd Even	Remarks
1	2	3	4	5	6	7
TACAN LINK TEN **(TL 10)**						
△ **PLAUN** R-001 / 40 DME GRF 50°21.30′N 012°00.45′E	242	244.1	10.2	FL 450 / FL 250	↑ ↓	
△ **ALOPO** R-347 / 36 DME GRF 50°16.82′N 011°46.08′E	062 240	063.9 242.2	23.8	FL 450 / FL 250	↑ ↓	
△ **NOLBA** R-309 / 37 DME GRF 50°05.65′N 011°13.42′E	060 239	061.7 241.8	18.6	FL 450 / FL 250	↑ ↓	
△ **IBMIX** R-022 / 53 DME DKB 49°56.85′N 010°48.08′E	059 239	061.5 241.4	37.8	FL 450 / FL 250	↑ ↓	
△ **GISAT** R-338 / 32 DME DKB 49°38.61′N 009°57.01′E	059 232	060.8 234.4	68.2	FL 450 / FL 250	↑ ↓	
▲ **KARLU** R-125 / 47 DME RMS 48°58.45′N 008°32.85′E	052	053.3				

TACAN ROUTE STRUCTURE FIR AMSTERDAM



ENR 3.5 OTHER ROUTES

ENR 3.5.1 Preferential TACAN routes upper airspace *)

IDENTIFICATION / SIGNIFICANT POINTS	MAG TRACK	DIST NM	MINIMUM IFR CRUISING LEVEL		REMARKS
			E-BOUND	W-BOUND	
1	2	3	4	5	6
TACAN RED ONE (TR1) *London UIR/Amsterdam FIR* **INT NAVPI** 52°32'50"N 002°50'26"E			FL 210		Depicted on chart ENR 6
	104 284	43	↓	↑	
INT MC2 52°30'N 004°03'E LWD R-238/76 DME					
	058 238	51			
INT MC3 53°00'N 005°12'E LWD R-238/24 DME					Access to route TL3
	058 238	24			
LWD 53°13'25"N 005°45'07"E					Access to routes TL3N and TR1N
	058 238	37			
INT MC4 53°34'00"N 006°36'30"E LWD R-058/37 DME *Amsterdam FIR/Hannover UIR*				FL 200	From/to WTM (FRG)
TACAN RED ONE NORTH (TR1N) *London UIR/Amsterdam FIR* **INT MC9** 53°30'N 003°39'E LWD R-286/77 DME			FL 210		Depicted on chart ENR 6
	106 286	77	↓	↑	
LWD 53°13'25"N 005°45'07"E				FL 200	Access to routes TR1 and TL3N

IDENTIFICATION / SIGNIFICANT POINTS	MAG TRACK	DIST NM	MINIMUM IFR CRUISING LEVEL		REMARKS
			E-BOUND	W-BOUND	
1	2	3	4	5	6
TACAN LINK THREE NORTH (TL3N) **LWD** 53°13'25"N 005°45'07"E *Amsterdam FIR/Hannover UIR* **INT MC5** 52°35'30"N 007°03'33"E	132/312	61	FL 210 ↓	↑ FL 200	Link route associated with TR1; depicted on chart ENR 6 From/to IBAGU (FRG)
TACAN LINK THREE (TL3) **INT MC3** 53°00'N 005°12'E LWD R-238/24 DME **BDRY** 52°34'N 006°46'E *Amsterdam FIR/Hannover UIR*	115/295	62	FL 210 ↓	↑ FL 200	Link route associated with TR1; depicted on chart ENR 6 From/to IBAGU (FRG)
TACAN BLUE SIX [1)2)] **(TB6)** *London UIR/Amsterdam FIR* **INT NAVPI** 52°32'50"N 002°50'26"E VKL R-298/119 DME **VKL** 51°39'20"N 005°42'25"E *Amsterdam FIR/Hannover UIR* **NOLRU** 51°30 01"N 006°12'59"E NOR R-336/44 DME	118/298 116/296	119 21	FL 210 ↓	↑ FL 200	Depicted on chart ENR 6 From/to NOR (FRG)

*) No OAT allowed above FL 195 (all TACAN routes closed FL 195 or above) on legal holidays as published in the AIP Netherlands GEN 2.1, and from MON-THU 2200-0500 (2100-0400) and from FRI 2200 (2100) thru MON 0500 (0400). AO to file GAT (>FL 245 DCT as published in RAD Appendix 4).

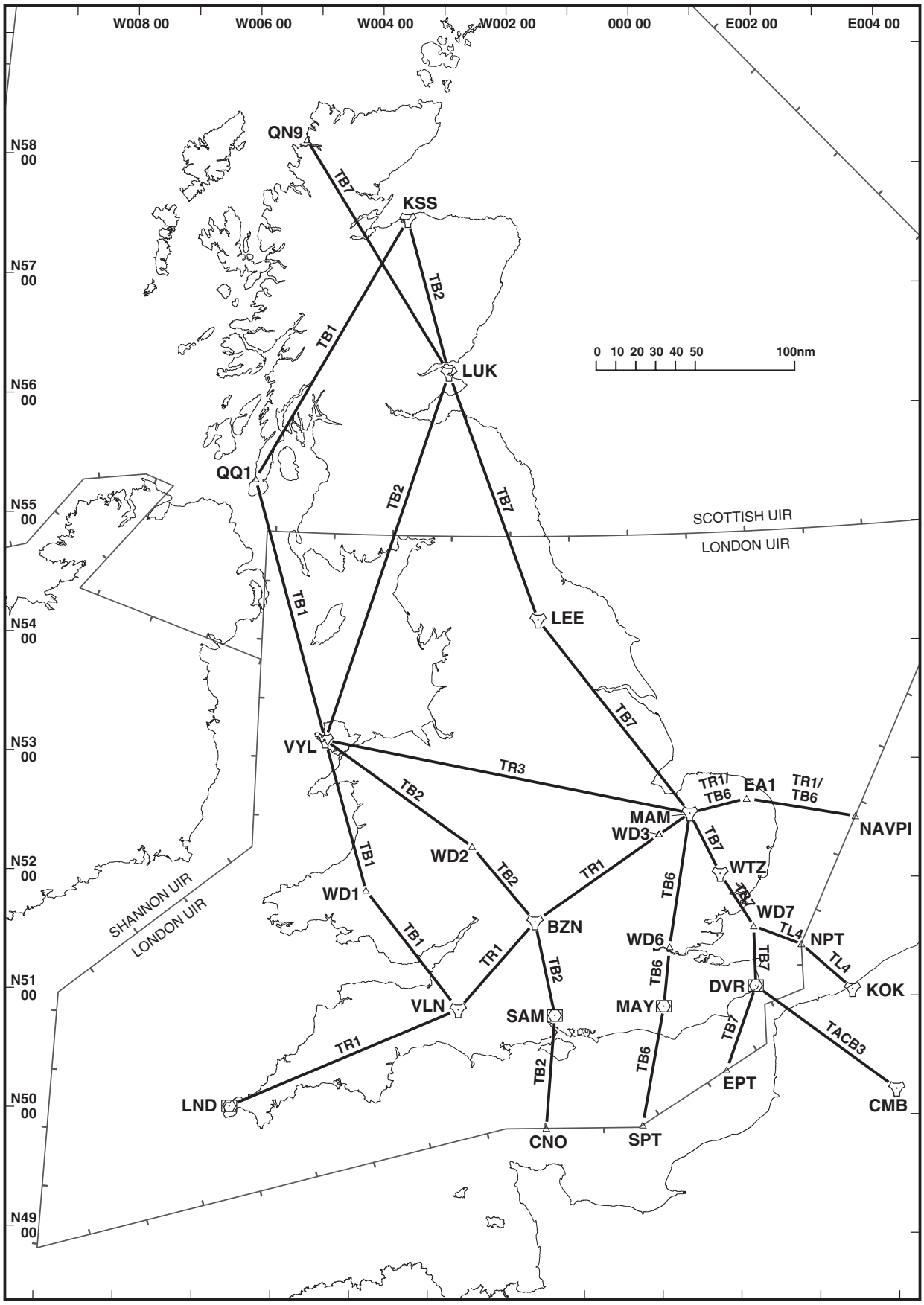
1) Westbound TFC departing from ETAD, ETAR, ETNN and ETNG and will follow the TB6 will enter the Amsterdam FIR via MILGI (51°11'49"N 006°07'30"E / NOR R-318/30 DME) inbound VKL on track 330º.

2) TB6 closed on legal holidays as published in the AIP Netherlands GEN 2.1, and from MON-THU 2200-0500 (2100-0400) and from FRI 2200 (2100) thru MON 0500 (0400). AO to file GAT accordingly:

IDENTIFICATION / SIGNIFICANT POINTS 1	MAG TRACK 2	DIST NM 3	UPPER LIMIT LOWER LIMIT 4	MINIMUM IFR FLIGHT ALT 5	REMARKS 6
UT601 **(B-RNAV)** **DIBIR** 51°16'37,00"N 006°07'28,00"E	303 123	57	FL 245/FL 195	FL 200	class C airspace
OKIDU 51°47'21,84"N 004°51'00,00"E	302 122	87	FL 660/FL 195	FL 200	Maastricht UAC above FL 245 Amsterdam ACC below FL 245
NAVPI 52°32'50,00"N 002°50'26,00"E					

Route remarks:
Carriage of B-RNAV equipment is mandatory.
Only AVBL for MIL TFC filing GAT.

UPPER AIRSPACE MILITARY TACAN ROUTE SYSTEM



ENR 3. ATS ROUTES

3.1 TACAN ROUTES UPPER AIRSPACE

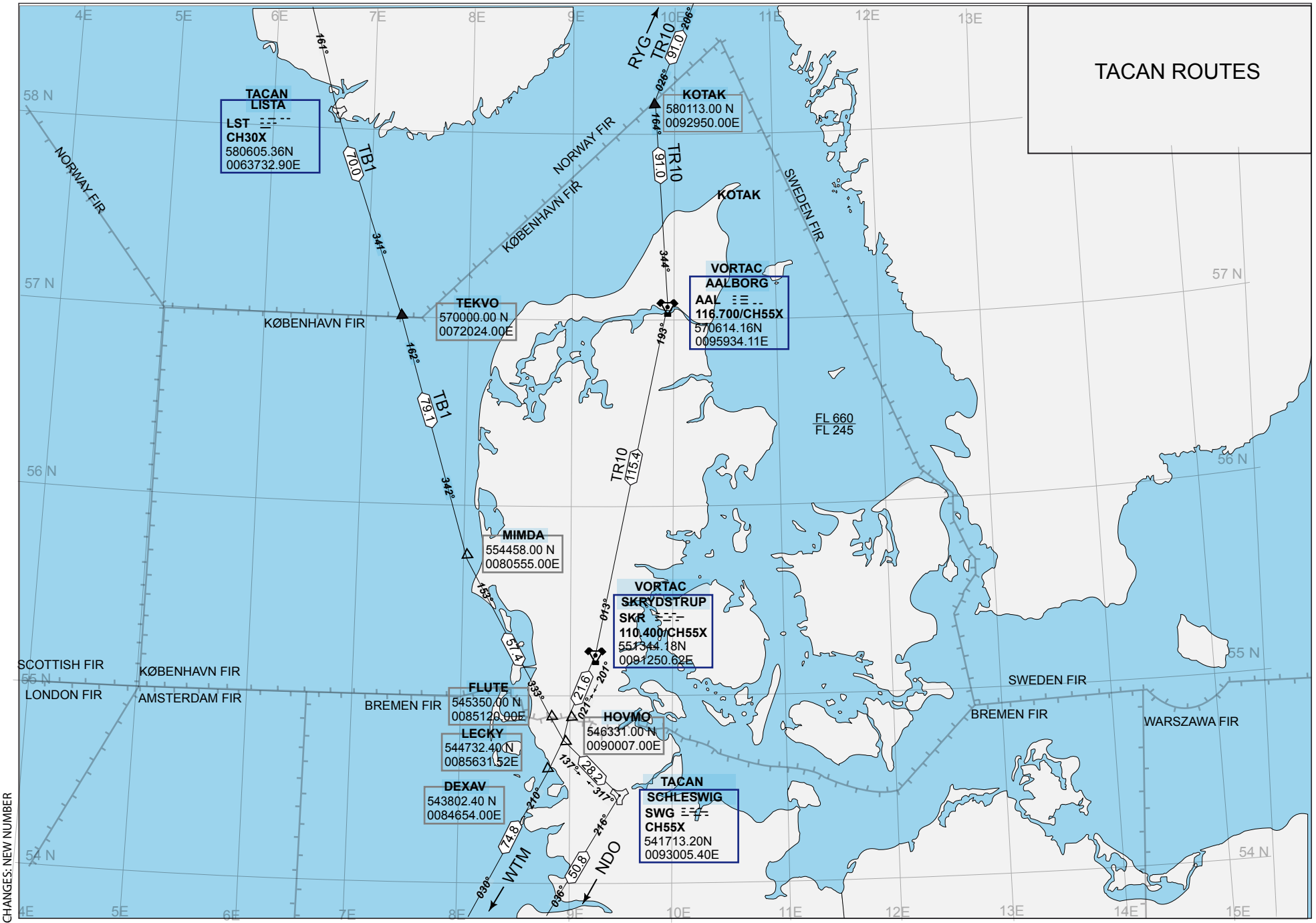
INDENTIFICATION/ SIGNIFICANT POINTS	MAG TRACK	DIST NM	MINIMUM IFR CRUISING LEVEL ODD	EVEN	REMARK
1	2	3	4	5	6
TACAN RED ONE (TR1) *London UIR* LND					
50 08 11N 005 38 13W	069	126	FL250		
VLN	250				At VLN: Access to route TB1
51 00 18N 002 38 19W	044	59			
BZN	225				At BZN: Access to route TB2
51 44 53N 001 36 13W	059	77			
WD3	239				At MAM: Access to routes TR3, TB6 and TB7
52 28 19N 000 07 04E	060	19			
MAM	240				
52 38 50N 000 33 11E	080	30			
EA1	261				
52 44 43N 001 20 56E	104	56			
NAVPI	285			FL260	
52 32 50N 002 50 26E *London UIR/* *Amsterdam FIR*					
TACAN RED THREE (TR3) *London UIR* VYL					
53 15 27N 004 32 39W	104	188	FL250		At VYL: Access to routes TB1 and TB2
MAM 52 38 50N 000 33 11E	286			FL260	At MAM: Access to routes TR1, TB6 and TB7

3.1 (Continued)

INDENTIFICATION/ SIGNIFICANT POINTS	MAG TRACK	DIST NM	MINIMUM IFR CRUISING LEVEL ODD	EVEN	REMARK
1	2	3	4	5	6
TACAN BLUE ONE (TB1) *Scottish UIR* KSS 57 39 34N 003 32 07W					
	215	152	FL250		At KSS: Access to route TB2
QQ1 55 26 00N 005 42 30W	033 168				
	137				
VYL 53 15 27N 004 32 39W	348 168	79			At VYL: Access to route TR3 and TB2
WD1 52 00 00N 003 55 00W	348 145	76			
VLN 51 00 18N 002 38 19W	325			FL260	At VLN: Access to route TB1
TACAN BLUE TWO (TB2) *Scottish UIR* KSS 57 39 34N 003 32 07W					
	169	80	FL250		At KSS: Access to route TB5
LUK 56 22 22N 002 51 49W	349 203	196			At LUK: Access to route TB7
VYL 53 15 27N 004 32 39W	021 129	92			At VYL: Access to routes TR3 and TB1
WD2 52 23 00N 002 28 00W	310 144	50			
BZN 51 44 53N 001 36 13W	324 172	49			At BZN: Access to route TR1
SAM 50 57 19N 001 20 42W	352 188	55			
CNO 50 02 00N 001 28 00W	008			FL 260	
TACAN BLUE THREE (TACB3) *London UIR* DVR 51 09 45N 001 21 33E					
	131	88	FL250		At DVR: Access to route TB7
CMB 50 13 42 003 09 06E *France UIR*	312			FL260	

3.1 (Continued)

INDENTIFICATION/ SIGNIFICANT POINTS	MAG TRACK	DIST NM	MINIMUM IFR CRUISING LEVEL ODD	EVEN	REMARK
1	2	3	4	5	6
TACAN BLUE SIX (TB6) *London UIR/France UIR* SPT					
50 02 00N 000 12 00W	014		FL250		
		60			
MAY	194				
51 01 02N 000 06 58E	010				
		30			
WD6	190				
51 31 00N 000 13 00E	013				
		69			
MAM	193				At MAM: Access to routes TR1 and TB7
52 38 50N 000 33 11E	080				
		30			
EA1	261				
52 44 43N 001 20 56E	104				
		56			
NAVPI	285			FL260	
52 32 50N 002 50 26E *London UIR/ Amsterdam FIR*					
TACAN BLUE SEVEN *Scottish UIR* QN9		**(TB7)**			
58 18 00N 005 10 00W	153		FL250		
		138			
LUK	333				
56 22 22N 002 51 49W	164				At LUK: Access to route TB2
		133			
LEE	344				
54 17 48N 001 32 12W	146				
		124			
MAM	327				At MAM: Access to routes TR1, TR3 and TR6
52 38 50N 000 33 11E	158				
		34			
WTZ	338				
52 07 19N 000 56 25E	152				
		32			
WD7	332				
51 40 00N 001 22 00E	182				At WD7: Access to route TL4
		30			
DVR	002				At DVR: Access to route TACB3
51 09 45N 001 21 33E	204				
		46			
EPT	023			FL260	
50 27 00N 000 55 00E London UIR/France UIR					
TACAN LINK FOUR (TL4) *London UIR* WD7					
51 40 00N 001 22 00E	115		FL250		At WD7: Access to route TB7
		26			
NPT	296				
51 29 42N 002 00 00E	136				
London UIR/Brussels UIR		34			
KOK	315			FL260	
51 05 34N 002 39 10E					



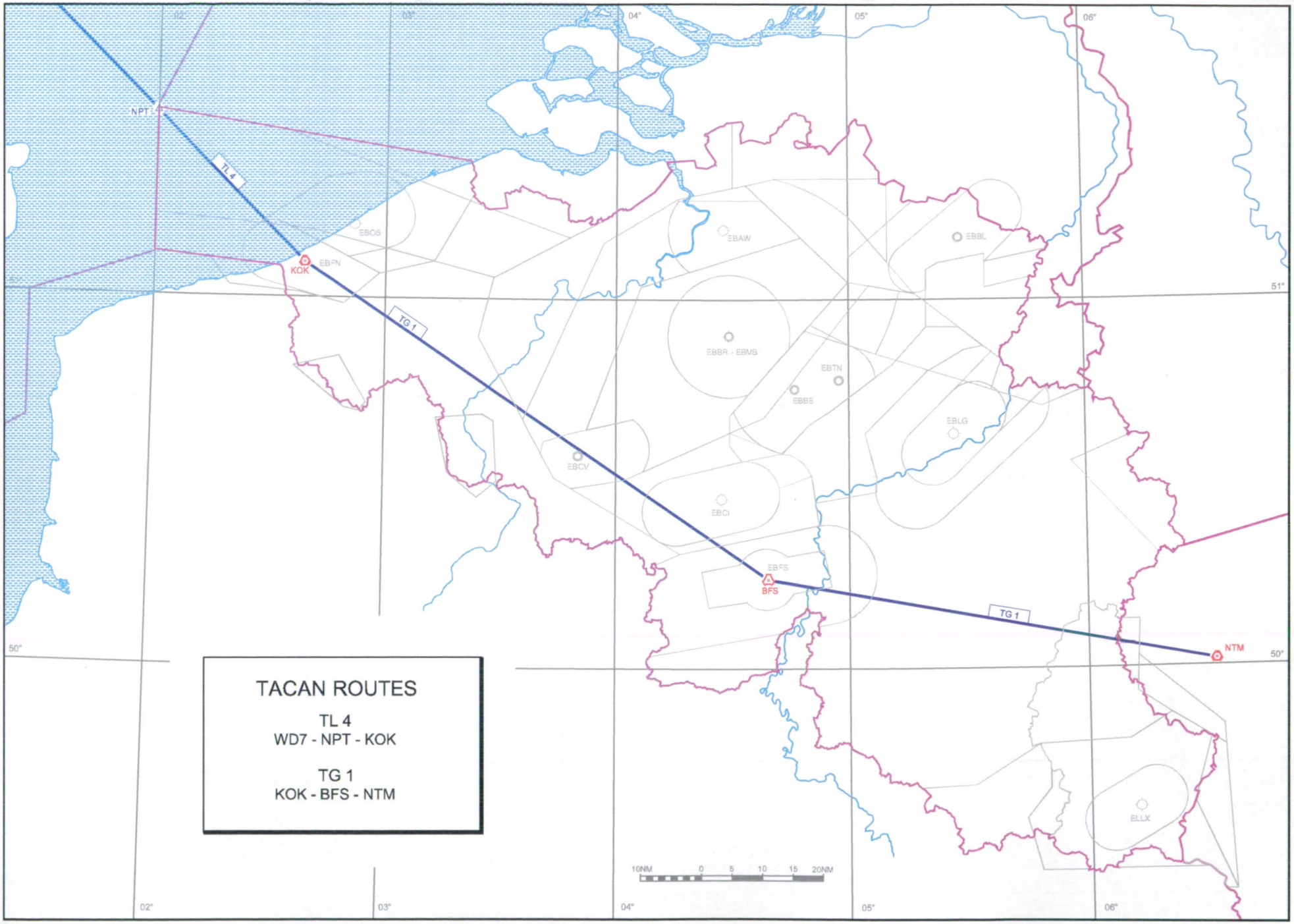
CHANGES: NEW NUMBER

ENR 3.5 TACAN ROUTES

TACAN ROUTES

▲ Compulsory REP
△ Non compulsory REP

Route designation Significant points, name and PSN (WGS-84)	Magnetic track	Distance (Nautical miles)	Upper limit Lower limit Airspace classification	Remarks
TACAN BLUE ONE (TB1)				
△ LECKY 544732.40N - 0085631.52E				For continuation see AIP Germany
	154º 334º	7.0	FL 660 FL 195 **C**	
△ FLUTE UIR BDRY (KØBENHAVN) 545350N - 0085120E	153º 333º	57.4	FL 195 3500 FT **E**	
△ MIMDA 554458N - 0080555E				
	162º 342º	79.1	FL 660 FL 195 **C**	
▲ TEKVO (UIR NORWAY BDRY) 570000N - 0072024E				
	161º 341º	70.0	FL 195 3500 FT **G**	
▲ LISTA TACAN (LST) 580605.36N – 0063732.90E				For continuation see AIP Norway
TACAN RED TEN (TR10)				
△ LECKY 544732.40N - 0085631.52E				For continuation see AIP Germany
	019º 199º	6.2		
△ HOVMO UIR BDRY (KØBENHAVN) 545331N - 0090007E	021º 201º	21.6		
△SKRYDSTRUP TACAN (SKR) 551344.18N 0091250.62E	013º 193º	115.4	FL 660 FL 250 **C**	
△ AALBORG TACAN (AAL) 570614.16N - 0095934.11E				
	164º 344º	57.4		
▲ KOTAK (FIR BDRY) 580113N - 0092950E				
	026º 206º	91.0		
▲ RYGGE TACAN (RYG) 592211N – 0104840E				For continuation see AIP Norway


TACAN ROUTES
TL 4
WD7 - NPT - KOK
TG 1
KOK - BFS - NTM
NPT
KOK
BFS
NTM
TL 4
TG 1
TG 1
EBOS
EBFN
EBAW
EBBL
EBBR - EBMB
EBTN
EBBE
EBLG
EBCV
EBCI
EBFS
ELUX
10NM 0 5 10 15 20NM
02°
03°
04°
05°
06°
50°
51°

ENR 3.5 Other routes: TACAN routes, night VFR navigation routes EBBT / EBLG, NVG link routes EBBT / EBLG, navigation routes 15W TPT, BENE / FALCON routes

1 MIL TACAN ROUTES TACAN ROUTE LINK FOUR (TL-4)

For remark concerning the TACAN routes see §1.3 hereafter.

Route Designator		[Route Usage Notes]					
	Significant Point name	Significant Point Coordinates					Remarks
		Initial Track MAG ↓ / ↑	Dist (NM)	Upper limit / Lower limit	FL series ↓	FL series ↑	Controlling unit [Airspace class] Remarks
TL-4							
△	WD7	515247N - 0012122E					
		135 / 315	35 NM	UNL / 260	Odd	Even	LONDON MILITARY MNM IFR cruising level FL 270
△	NPT	512941N - 0020000E					
		135 / 315	36 NM	UNL / 260	Odd	Even	BELGA RADAR [Class C] MNM IFR cruising level FL 260
△	KOKSIJDE DVORTAC (KOK)	510557N - 0023917E					

1.2 TACAN ROUTE GOLF ONE (TG-1)

For remark concerning the TACAN routes see §1.3 hereafter.

Route Designator		[Route Usage Notes]					
	Significant Point name	Significant Point Coordinates					Remarks
		Initial Track MAG ↓ / ↑	Dist (NM)	Upper limit / Lower limit	FL series ↓	FL series ↑	Controlling unit [Airspace class] Remarks
TG-1							
△	KOKSIJDE DVORTAC (KOK)	510557N - 0023917E					
		127 / 307	92 NM	UNL / 260	Odd	Even	BELGA RADAR [Class C] MNM IFR cruising level FL 270
△	FLORENNES TACAN (BFS)	501429N - 0043911E					
		103 / 283	57 NM	UNL / 260	Odd	Even	BELGA RADAR [Class C]
△	BRUSSELS UIR / RHEIN UIR	500400N - 0060800E					
		103 / 283	16 NM		Odd	Even	RHEIN CONTROL MNM IFR cruising level FL 260 (2)
△	NATTENHEIM VORTAC (NTM)	500057N - 0063155E					
Point/Segment Remarks: (2) For continuation see AIP Germany.							

1.3 REMARK CONCERNING TACAN ROUTES

State ACFT traffic between BELGIUM, LUXEMBOURG and FRANCE along TACAN routes must be transferred as GAT flights. Therefore the following rules apply:

- OAT flying on TG-1 will be routed to France via DIK on UA 242 and becomes GAT from intersection of TG-1 and UA24.
- State ACFT traffic transiting LUXEMBOURG and south of BELGIUM will be routed as GAT flights on UR110 via NTM, LUX, MMD and vice versa.

2.1.3 ATCC SEMMERZAKE OPS HR

a. The ATCC SEMMERZAKE is providing ATS from MON till FRI daily between 0730 and 1630, EXC:
   - during national HOL published in the MIL AIP BELGIUM (see GEN 2.1), or;
   - during planned closures of ATCC as announced by NOTAM published at least 48 HR prior.

b. ATCC shall also provide ATS outside the timings mentioned above during planned ACT (e.g. night FLT) as announced by NOTAM (published, if possible, at least 48 HR prior).

c. Under exceptional circumstances (contingencies, OPS in the interest of national security, etc.) COMOPSAIR can decide to activate ATCC at short notice outside the normal OPS HR and without NOTAM.

d. Activation of ATCC can be checked with the CIV FIC.

e. TFC that intends to file an OAT FPL outside the published OPS HR of ATCC has to obtain prior permission from COMOPSAIR (PPR 72 HR). The request shall be sent to MDC (Military Detachment for Co-ordination), Fax ++32 (0)2 752 42 01. The permission will only be granted under exceptional circumstances when the ATS provided by a CIV agency would not be possible or would not be desirable (e.g. sensitive MIL FLT). If permission has been granted, ATCC will provide ATS only to that TFC for which the permission has been obtained.

f. Outside these OPS HR, ATCC does not provide any ATS (nor ATC nor FIS). Planned MIL flights outside the ATCC OPS HR shall therefore:
   - file a GAT FPL (Remark: The MIL TACAN route TG1 cannot be filed GAT); or
   - obtain special permission from COMOPSAIR to file OAT (PPR 72 HR), see §2.1.3 e above;
   - contact the CIV FIC when entering uncontrolled airspace.

g. The airspace in which ATCC provides ATS comprises the BRUSSELS FIR/UIR and certain portions of delegated airspace outside the BRUSSELS FIR/UIR (see §2.1.2 above). Outside the OPS HR of ATCC the TRA NORTH, SOUTH and WEST (see ENR 5.2) will be released to the appropriate CIV ATS agencies. The responsibility for the provision of ATS in any delegated airspace outside the BRUSSELS FIR/UIR will be returned to the appropriate national authorities.

h. Belgian or foreign QRA ACFT flying in the BRUSSELS FIR/UIR outside ATCC OPS HR will be under control of CRC GLONS or under control of an AD ATSU during their mission.

i. Summary:

ATCC SEMMERZAKE OPS HR	
ATS provided by ATCC are AVBL:	MON-FRI btw 0730 and 1630 daily, EXC during: - published HOL (GEN 2.1) - closures of ATCC as announced by NOTAM at least 48 HR prior
	When announced by NOTAM
	Exceptionally, when decided by COMOPSAIR, without NOTAM
ATS provided to specific FLT by ATCC outside published OPS HR:	Only to specific FLT that obtained approval by COMOPSAIR (PPR 72 HR). request should be sent to MDC, Fax ++32 (0)2 752 42 01

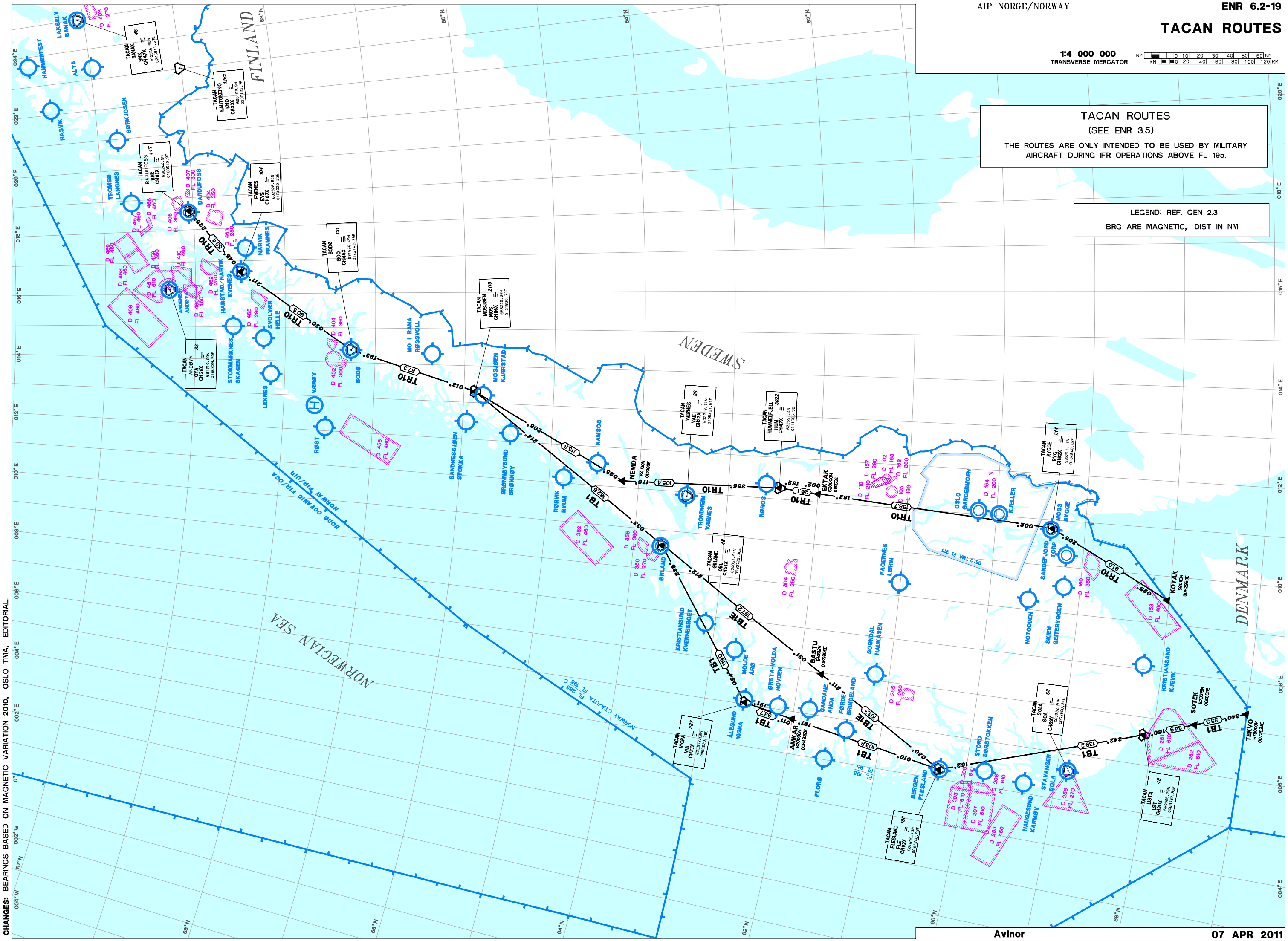
2.2 AIR TRAFFIC SERVICES ON AERODROMES

The MIL AD listed below are providing ATS (comprising AD control service, APP control service -including PAR-, FIS and ALRS), as well as AIS.

- BEAUVECHAIN (EBBE)
- FLORENNES (EBFS)
- KLEINE-BROGEL (EBBL)
- KOKSIJDE (EBFN)

TACAN ROUTES

1:4 000 000
TRANSVERSE MERCATOR


TACAN ROUTES
(SEE ENR 3.5)
THE ROUTES ARE ONLY INTENDED TO BE USED BY MILITARY AIRCRAFT DURING IFR OPERATIONS ABOVE FL 195.
LEGEND: REF. GEN 2.3
BRG ARE MAGNETIC, DIST IN NM.
FINLAND
SWEDEN
NORWEGIAN SEA
DENMARK
NORWAY FIR/UIR
BODØ OCEANIC FIR/OCA
NORWAY CTA/UTA FL 195 C
OSLO TMA FL 215
TACAN BNK CH47X 42 100355.1N 0225911.1E
TACAN KAUTOKEINO KNO CH33X 1262 690107.1N 0230122.1E
TACAN BARDUFOSS BAR CH31X 447 690244.5N 0185910.9E
TACAN EVENES EVS CH57X 104 680528.6N 0160030.2E
TACAN BODØ BOO CH45X 131 671558.4N 0142142.2E
TACAN MOSJØEN MOS CH66X 2110 650928.6N 0131930.7E
TACAN ANDØY/A ØYA CH28X 32 690219.0N 0160939.9E
TACAN VERNES VNX CH35X 38 632718.7N 0105401.5E
TACAN HUMMELFJELL HUM CH27X 5022 622051.4N 0111655.9E
TACAN RYGGE RYG CH12X 214 592211.1N 0104640.4E
TACAN RØYLAND ORL CH51X 48 634051.9N 0050725.3E
TACAN VIGRA VIX CH70X 227 622303.3N 0060200.7E
TACAN FLESLAND FLE CH52X 186 601800.1N 0050726.5E
TACAN SOLA SOA CH59X 62 585232.9N 0050906.9E
TACAN LISTA LST CH30X 48 580605.3N 0060732.5E
TACAN KOTAK 580100N 0050500E
TACAN SOTEK 570730N 0050500E
TACAN TEKVO 570000N 0070024E
TACAN NEMDA 640000N 0110000E
TACAN EKTAK 650000N 0110500E
TACAN BASTU 650000N 0050500E
TACAN AMKAR 650000N 0054500E
TR10
TB1
TB16
TB17
TB18
TB19
TB20
TB21
TB22
TB23
TB24
TB25
TB26
TB27
TB28
TB29
TB30
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TB54
TB55

ENR 3.5 Andre ruter

1 TACAN-ruter

Rutene er kun beregnet for miltære luftfartøyer som utfører IFR-flyging over FL 195.

ENR 3.5 Other routes

1 TACAN Routes

The routes are only intended to be used by military aircraft during IFR operations above FL 195.

TACAN IDENT Spesielle punkter/ Significant Points	*IDENT of TACAN BRG and DIST ELEV DME antenna*	*TACAN RDL/ MAG TR DIST NM*	*Vertikale grense * Vertical limits * *(Klasse/class)*	*Direction of cruising levels* Ulike Odd	Like/ Even	*RMK*
1		*2*	*3*	*5*		*6*
TB1						Bodø ATCC
▲ Mosjøen TACAN MOS 655239.64N0131830.73E	2110 FT		FL660 / FL195 C	↑	↓	CDR 1 (MOS-ORL): MON-FRI H24, public holidays excluded.
		214° 162,6 NM				
▲ Ørland TACAN ORL 634051.94N0093725.36E	48 FT	033°				
		235° 119,0 NM		↓		
▲ Vigra TACAN VIA 623303.68N0060220.78E	289 FT	054°				Note: MRA 23500 FT
		191° 33,7 NM				
▲ AMKAR 620000N 0054932E		011°				
		191° 103,8 NM				Stavanger ATCC
▲ Flesland TACAN FLE 601800.13N0051248.92E	186 FT	010°				
		162° 139.2 NM				
▲ Lista TACAN LST 580605.36N 0063732.90E	48 FT	342°				CDR 1: (LST-SOTEK-TEKVO): MON-FRI 2300-0600, and FRI 1700 - MON 0600, and public holidays H24. CDR 2: outside said hours.
		160° 34,9 NM			↑	
▲ SOTEK 573315N 0065911E		340°				
		160° 35,3 NM				Oslo ATCC
▲ TEKVO 570000N 0072024E		340°				
TB 1E						Bodø ATCC Note: MRA 34500 FT
▲ Ørland TACAN ORL 634051.94N0093725.36E	48 FT		FL660 / FL195 C	↓	↑	CDR 1: (ORL-BASTU): MON-FRI H24, public holidays excluded.
		212° 137,2 NM				
▲ BASTU 614512N 0065806E		031°				
		211° 101,3 NM				Stavanger ATCC Note: MRA 34500 FT
▲ Flesland TACAN FLE 601800.13N0051248.92E	186 FT	030°				

TACAN IDENT *Spesielle punkter/* *Significant Points*	*IDENT of TACAN* *BRG and DIST* *ELEV DME antenna*	*TACAN RDL/* *MAG TR* *DIST NM*	*Vertikale grense ** *Vertical limits ** **(Klasse/class)*	*Direction of cruising levels*		*RMK*
				Ulike *Odd*	*Like/* *Even*	
1		*2*	*3*	*5*		*6*
TR 10						Bodø ATCC
▲ Bardufoss TACAN BAR 690244.5N0183510.9E	447 FT		FL660 / FL195 C			CDR 1 (BAR-EVS): H24. SAT, SUN and public holidays excluded.
		225° 53,4 NM				
▲ Evenes TACAN EVS 682928.64N0164030.23E	104 FT	045° 211° 90,5 NM				CDR 1 (EVS-BOO-MOS-NEMDA): MON-FRI H24, public holidays excluded.
▲ Bodø TACAN BOO 671558.49N0142142.39E	133 FT	030° 193° 87,3 NM				
▲ Mosjøen TACAN MOS 655239.64N0131830.73E	2110 FT	013° 206° 115,6 NM				
▲ NEMDA 641100N 0111000E		025° 176° 105,4 NM				
▲ Hummelfjell TACAN HUM 622557.4N0111605.9E	5022 FT	356° 182° 26,1 NM				
▲ EKTAK 620000N 0111153E		002° 182° 158,7 NM				Oslo ATCC
▲ Rygge TACAN RYG 592211.17N 0104840.48E	214 FT	002° 205° 91,0 NM				CDR 1 (RYG-KOTAK): 0700-2200. SAT, SUN and public holidays excluded.
▲ KOTAK 580113N 0092950E		025°				