

List of pages in this Trip Kit

Trip Kit Index

Airport Information For UKOO

Terminal Charts For UKOO

Revision Letter For Cycle 02-2021

Change Notices

Notebook

General Information

Location: ODESA UKR
ICAO/IATA: UKOO / ODS
Lat/Long: N46° 25.60', E030° 40.58'
Elevation: 171 ft

Airport Use: Public
Daylight Savings: Observed
UTC Conversion: -2:00 = UTC
Magnetic Variation: 6.0° E

Fuel Types: 115-145 Octane, Jet A-1
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0534 Z
Sunset: 1443 Z

Runway Information

Runway: 16
Length x Width: 9186 ft x 184 ft
Surface Type: asphalt
TDZ-Elev: 172 ft
Lighting: Edge, ALS

Runway: 34
Length x Width: 9186 ft x 184 ft
Surface Type: asphalt
TDZ-Elev: 165 ft
Lighting: Edge, ALS

Communication Information

ATIS: 124.800 Non-English
ATIS: 133.100
Odesa Tower: 125.500
Odesa Ground: 127.700
Odesa Information: 134.500 Flight Info Service RCO
Odesa Radar ACC: 120.900 RCO

UKOO/ODS
ODESA

JEPPESEN

27 NOV 20

10-1P

Eff 3 Dec

ODESA, UKRAINE
AIRPORT BRIEFING**1. GENERAL****1.1. ATIS**

ATIS 133.1
124.8 (Russian)

1.2. NOISE ABATEMENT PROCEDURES

SIDs and approaches for Odesa aerodrome are based on minimizing the impact for aviation noise on settlements located around the aerodrome.

Crews should strictly adhere to entry/exit patterns.

Minimum levels provided by an ATC when ACFT is under radar vectoring or direct routing include corrections for low temperature effect if the temperature is within the range from -25°C to -10°C inclusively.

1.3. LOW VISIBILITY PROCEDURES (LVP)

Procedures are applied when RVR is less than 600m.

ACFT is taxiing behind Follow-me car.

When LVP are applied, only one ACFT is allowed to move at aerodrome.

1.4. TAXI PROCEDURES

For taxi and wingspan restrictions refer to 10-9 charts.

Taxiing ACFT via aprons K, L and N only under Follow-me car instructions, in other case - on crew request.

After ACFT landing, 180° turn is allowed for RWY vacation only at abeam TWYs 1, 3 and 5.

For ACFT B737-800, -900, A321, 180° turn is allowed for RWY vacation only at the end of RWY abeam TWY 1 and TWY 5.

Taxiing to stands on apron M - via free adjacent stand. Taxiing to stands on apron N - via one of free stands (38, 39, 40 or 41).

1.4.1. TAXIING ROUTES

Route T1 - for ACFT taxiing from/to Main TWY to/from stands 1 thru 3 on apron K.

Route T2 - for ACFT taxiing from/to Main TWY to/from stands on apron K and L (in case of stands 1 thru 5 are not occupied).

Route T3 - for ACFT taxiing from/to TWY 1 to/from stands on apron K and L (simultaneous usage with routes T2 or T5 is NOT ALLOWED).

Route T4 - for ACFT taxiing from/to TWY 6 to/from stands on apron N, L and K.

Route T5 - for ACFT taxiing from/to TWY 1 to/from stands on apron K and L.

1.5. PARKING INFORMATION

Specially equipped area for engine tests.

ACFT stands available for helicopters.

1.6. OTHER INFORMATION

Maneuvering area of aerodrome located south of TWY 3 is not visible from Tower. Birds.

The crew must inform the Tower in advance about the restrictions that it has for ACFT to use the maneuvering area.

UKOO/ODS
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27 NOV 20

10-1P1

Eff 3 Dec

ODESA, UKRAINE
AIRPORT BRIEFING

2. ARRIVAL

2.1. CONTINUOUS DESCENT OPERATIONS (CDO)

Authorized when ILS available.

Not available during adverse weather or system degradation affecting GNSS or ILS operations.

After receiving a "WHEN READY DESCEND TO (LEVEL)" or "DESCEND TO (LEVEL) AT PILOTS DISCRETION" clearance, the pilot is free to plan/optimize the vertical profile in order to apply CDO technique up to the FAP.

Depending on the traffic situation, the CDO can start from the top-of-descent (TOD) or from lower levels.

When cleared "WHEN READY DESCEND TO (LEVEL)" or "DESCEND TO (LEVEL) AT PILOTS DISCRETION", the pilot should maintain the cruising/last assigned level until the optimum descent point/TOD, as determined by the pilot (or by FMS), and then commence descent without any additional request unless otherwise instructed by ATC.

Due to airspace structure, ATC will initially instruct pilots to descend to the level(s) above the level of FAP. In doing so, ATC will issue further descent instruction prior to the CDO flight reaching 900m (3000') from the last assigned level so as to prevent leveling off.

Pilots shall maintain MAX IAS 220 KT at a distance of 20 track miles from touchdown.

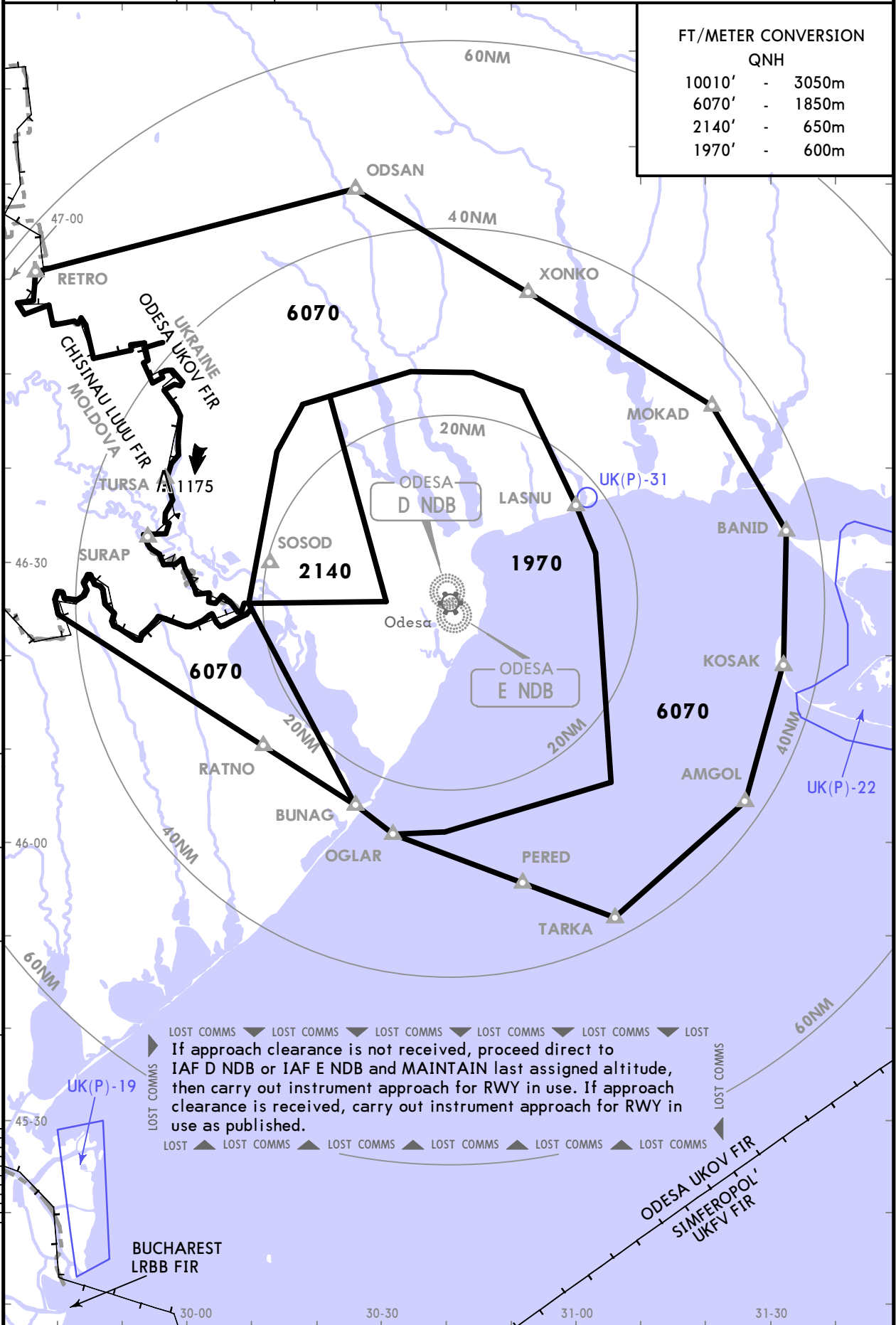
Specified minimum levels at waypoints must be adhered unless cancelled by ATC.

If the CDO flight becomes impossible due to an emergency, weather conditions, or traffic situation, pilots are informed by ATC and an alternate instruction is issued: "CONTINUOUS DESCENT NOT POSSIBLE DUE TO (REASON FOR CDO SUSPENDING)".

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ODESA, UKRAINE
RADAR MINIMUM ALTITUDES

ODESA Radar 120.9	Apt Elev 172	Alt Set: hPa (MM on request) Trans level: By ATC Trans alt: 10010 1. This chart may only be used for cross-checking of altitudes assigned while the aircraft identified. 2. MRVA are safe if the temperature at the surface is -9° or above. For lower temperatures, corrected minimum levels will be provided by ATC.
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FT/METER CONVERSION QNH	
10010'	- 3050m
6070'	- 1850m
2140'	- 650m
1970'	- 600m

CHANGES: Lost comms note revised.

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UK00/ODS
ODESA

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21 FEB 20 **10-2** **Eff 27 Feb**

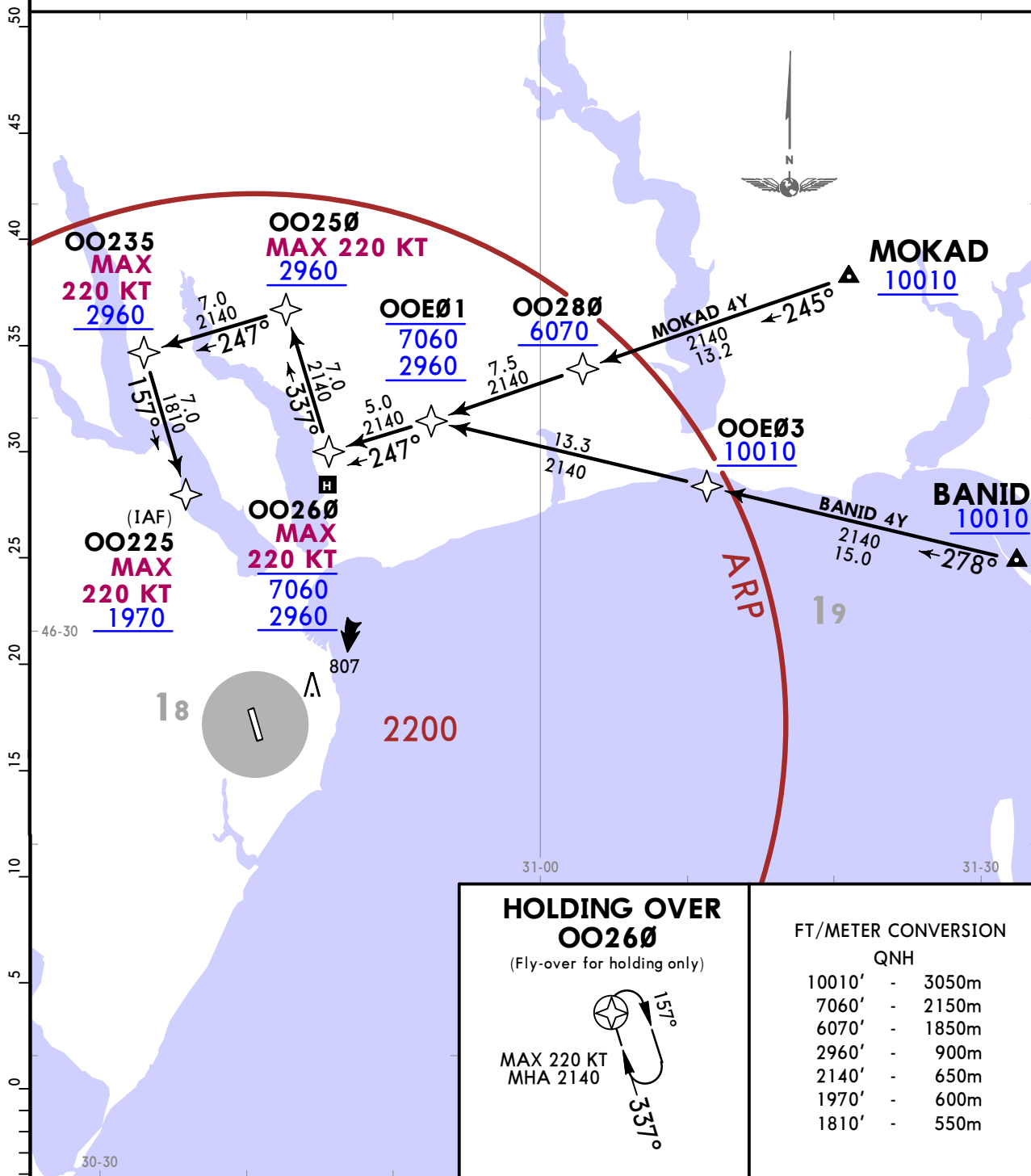
ODESA, UKRAINE
RNAV STAR

ATIS
133.1
(Russian **124.8**)

Apt Elev
171

- Alt Set: hPa (MM on request)
Trans level: By ATC
1. GNSS required.
 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC.
 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC.
 4. For CDO instructions refer to 10-1P pages.
 5. Altitude assignment will be issued by ATC.

BANID 4Y [BANI4Y]
MOKAD 4Y [MOKA4Y]
RNAV (GNSS) ARRIVALS
(RWY 16)



HOLDING OVER
OO260
(Fly-over for holding only)

MAX 220 KT
MHA 2140

FT/METER CONVERSION

QNH

10010'	-	3050m
7060'	-	2150m
6070'	-	1850m
2960'	-	900m
2140'	-	650m
1970'	-	600m
1810'	-	550m

STAR	ROUTING
BANID 4Y	BANID (10010+) - OOE03 (10010+) - OOE01 (7060-; 2960+) - OO260 (K220-; 7060-; 2960+) - OO250 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).
MOKAD 4Y	MOKAD (10010+) - OO280 (6070+) - OOE01 (7060-; 2960+) - OO260 (K220-; 7060-; 2960+) - OO250 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).

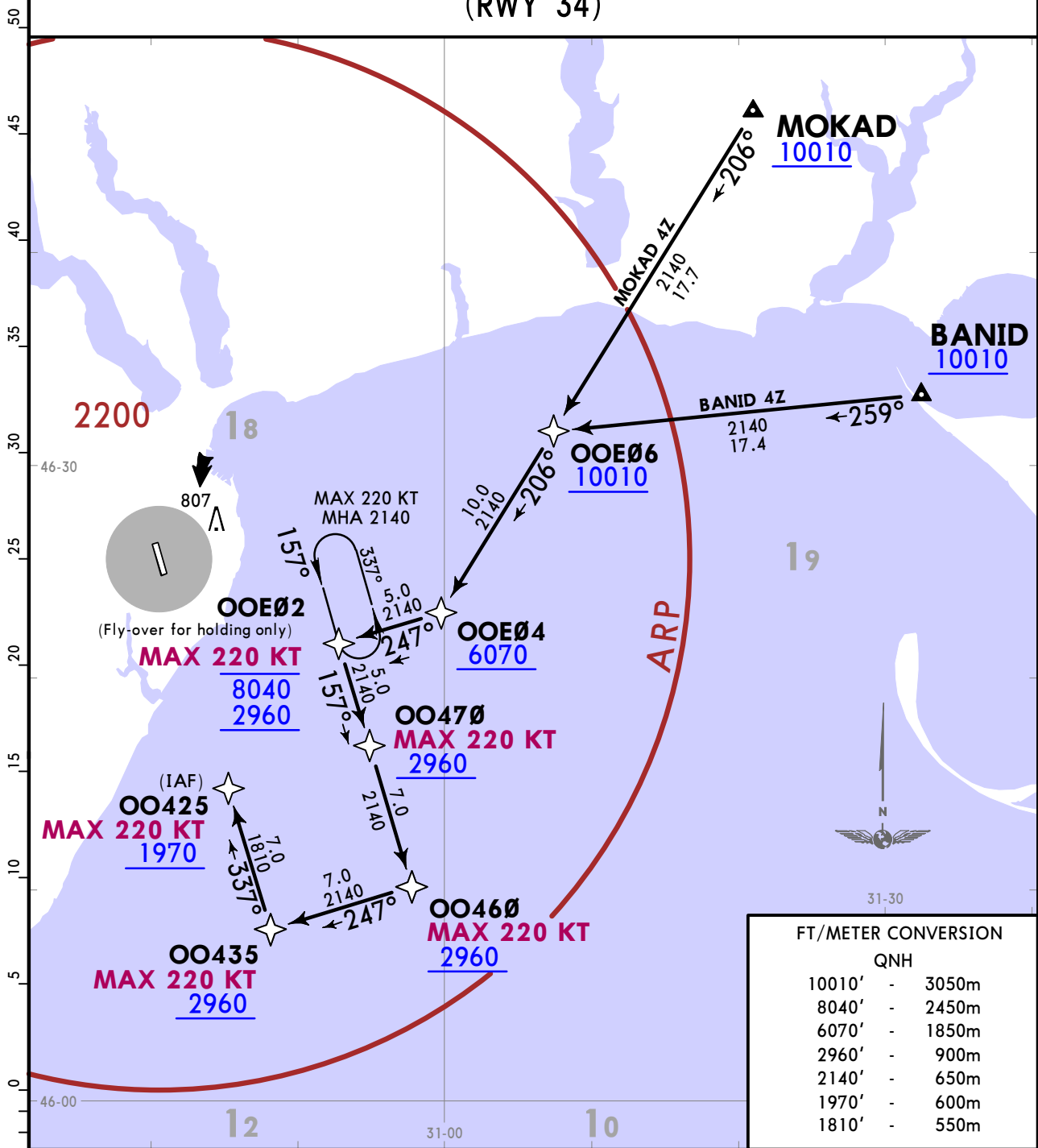
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **10-2A** **Eff 27 Feb**

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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**BANID 4Z [BANI4Z]
MOKAD 4Z [MOKA4Z]
RNAV (GNSS) ARRIVALS
(RWY 34)**



STAR	ROUTING
BANID 4Z	BANID (10010+) - OOE06 (10010+) - OOE04 (6070+) - OOE02 (K220-; 8040-; 2960+) - OO470 (K220-; 2960+) - OO460 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).
MOKAD 4Z	MOKAD (10010+) - OOE06 (10010+) - OOE04 (6070+) - OOE02 (K220-; 8040-; 2960+) - OO470 (K220-; 2960+) - OO460 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).

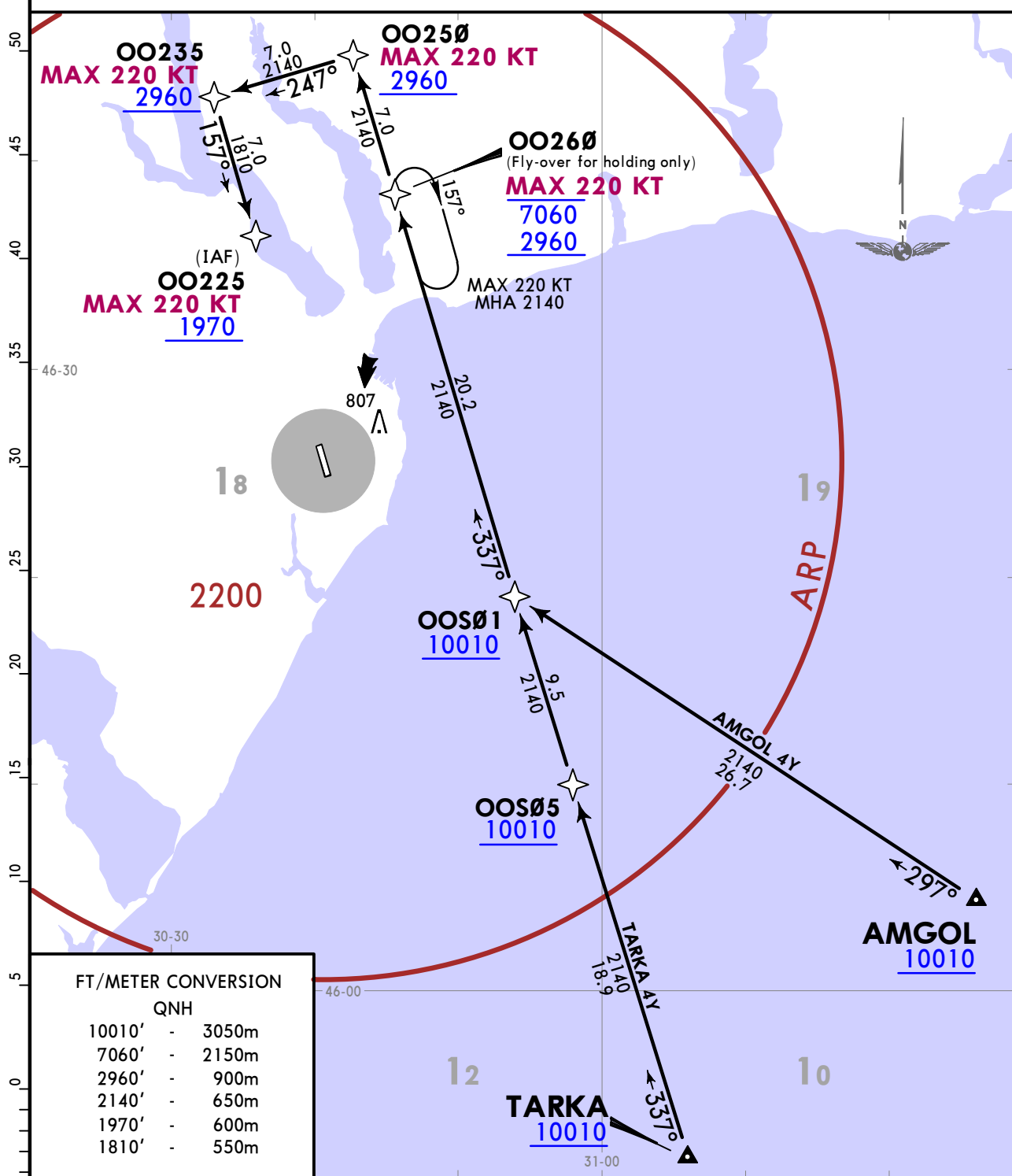
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-2B)** **Eff 27 Feb**

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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AMGOL 4Y [AMG04Y], TARKA 4Y [TARK4Y]
RNAV (GNSS) ARRIVALS
(RWY 16)



FT/METER CONVERSION	
QNH	
10010'	- 3050m
7060'	- 2150m
2960'	- 900m
2140'	- 650m
1970'	- 600m
1810'	- 550m

STAR	ROUTING
AMGOL 4Y	AMGOL (10010+) - OOS01 (10010+) - OO260 (K220-; 7060-; 2960+) - OO250 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).
TARKA 4Y	TARKA (10010+) - OOS05 (10010+) - OOS01 (10010+) - OO260 (K220-; 7060-; 2960+); - OO250 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).

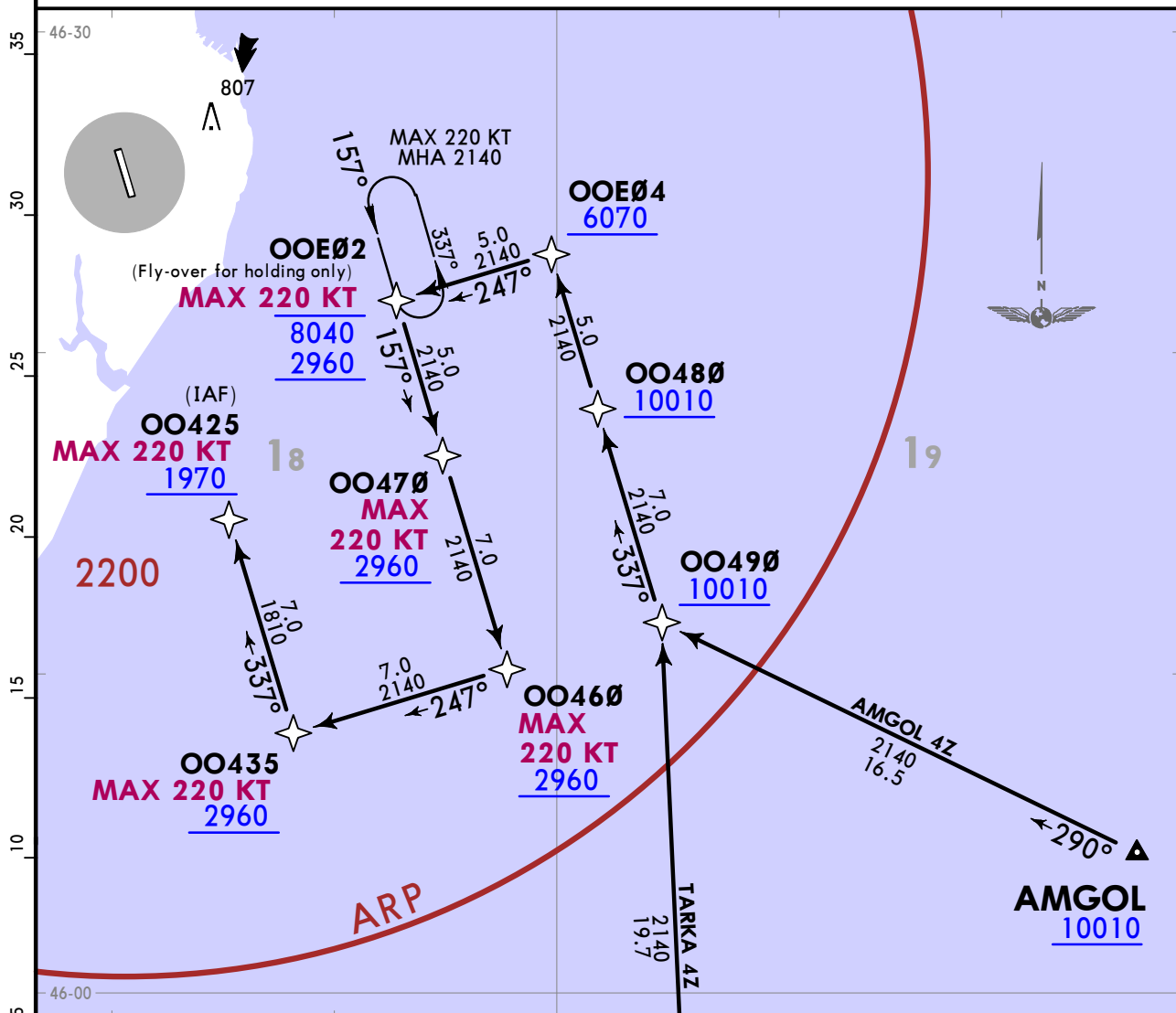
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 (10-2C) Eff 27 Feb

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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**AMGOL 4Z [AMGO4Z]
TARKA 4Z [TARK4Z]
RNAV (GNSS) ARRIVALS
(RWY 34)**



FT/METER CONVERSION QNH	
10010'	- 3050m
8040'	- 2450m
6070'	- 1850m
2960'	- 900m
2140'	- 650m
1970'	- 600m
1810'	- 550m

STAR	ROUTING
AMGOL 4Z	AMGOL (10010+) - OO490 (10010+) - OO480 (10010+) - OOE04 (6070+) - OOE02 (K220-; 8040-; 2960+) - OO470 (K220-; 2960+) - OO460 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).
TARKA 4Z	TARKA (10010+) - OO490 (10010+) - OO480 (10010+) - OOE04 (6070+) - OOE02 (K220-; 8040-; 2960+) - OO470 (K220-; 2960+) - OO460 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).

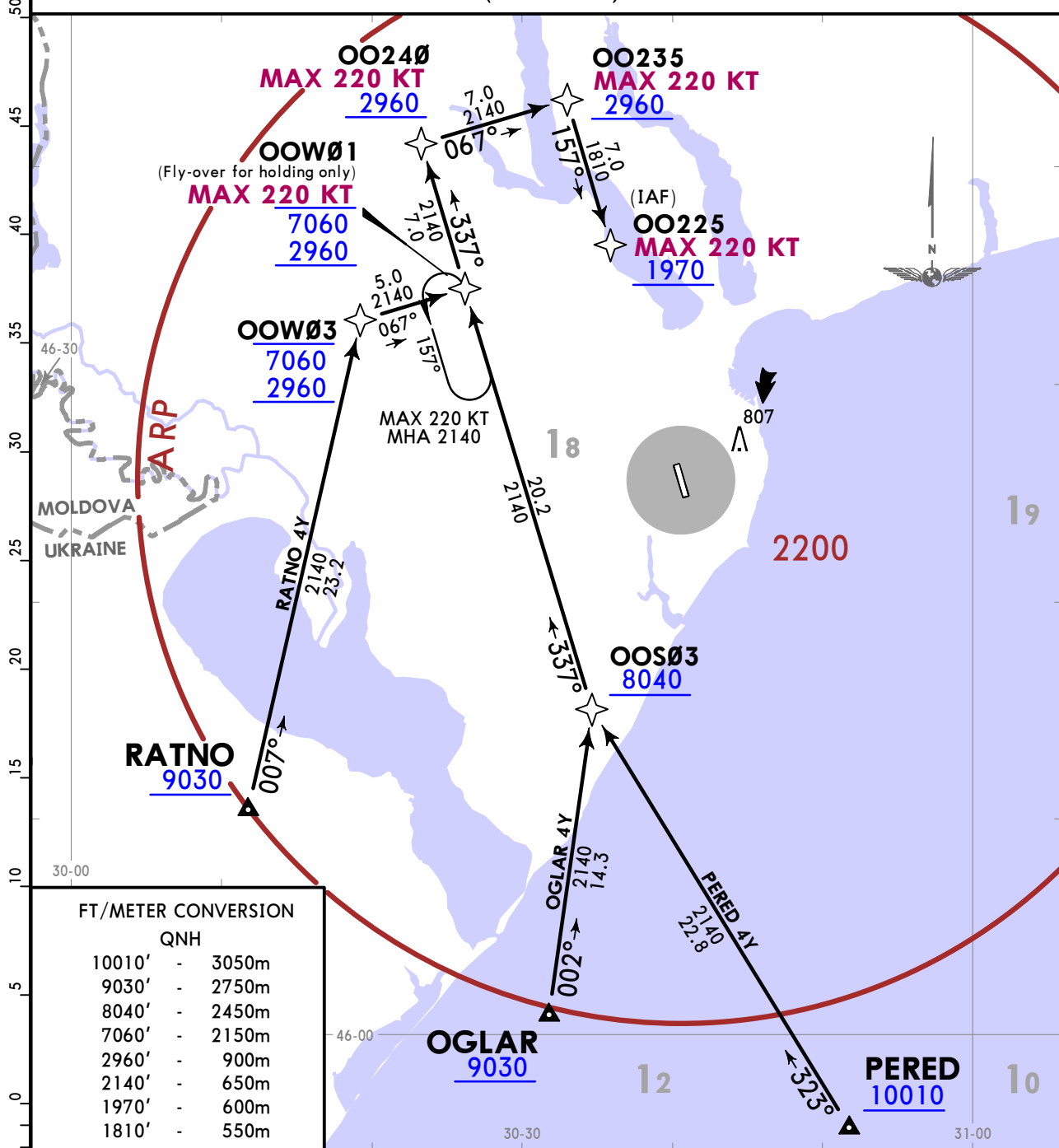
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ODESA

JEPPESEN
21 FEB 20 **10-2D** **Eff 27 Feb**

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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**OGLAR 4Y [OGLA4Y], PERED 4Y [PERE4Y]
RATNO 4Y [RATN4Y]
RNAV (GNSS) ARRIVALS
(RWY 16)**



FT/METER CONVERSION	
QNH	
10010'	- 3050m
9030'	- 2750m
8040'	- 2450m
7060'	- 2150m
2960'	- 900m
2140'	- 650m
1970'	- 600m
1810'	- 550m

STAR	ROUTING
OGLAR 4Y	OGLAR (9030+) - OOS03 (8040+) - OOW01 (K220-; 7060-; 2960+) - OO240 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).
PERED 4Y	PERED (10010+) - OOS03 (8040+) - OOW01 (K220-; 7060-; 2960+) - OO240 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).
RATNO 4Y	RATNO (9030+) - OOW03 (7060-; 2960+) - OOW01 (K220-; 7060-; 2960+) - OO240 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).

CHANGES: RNAV STARs renumbered & revised; new format.

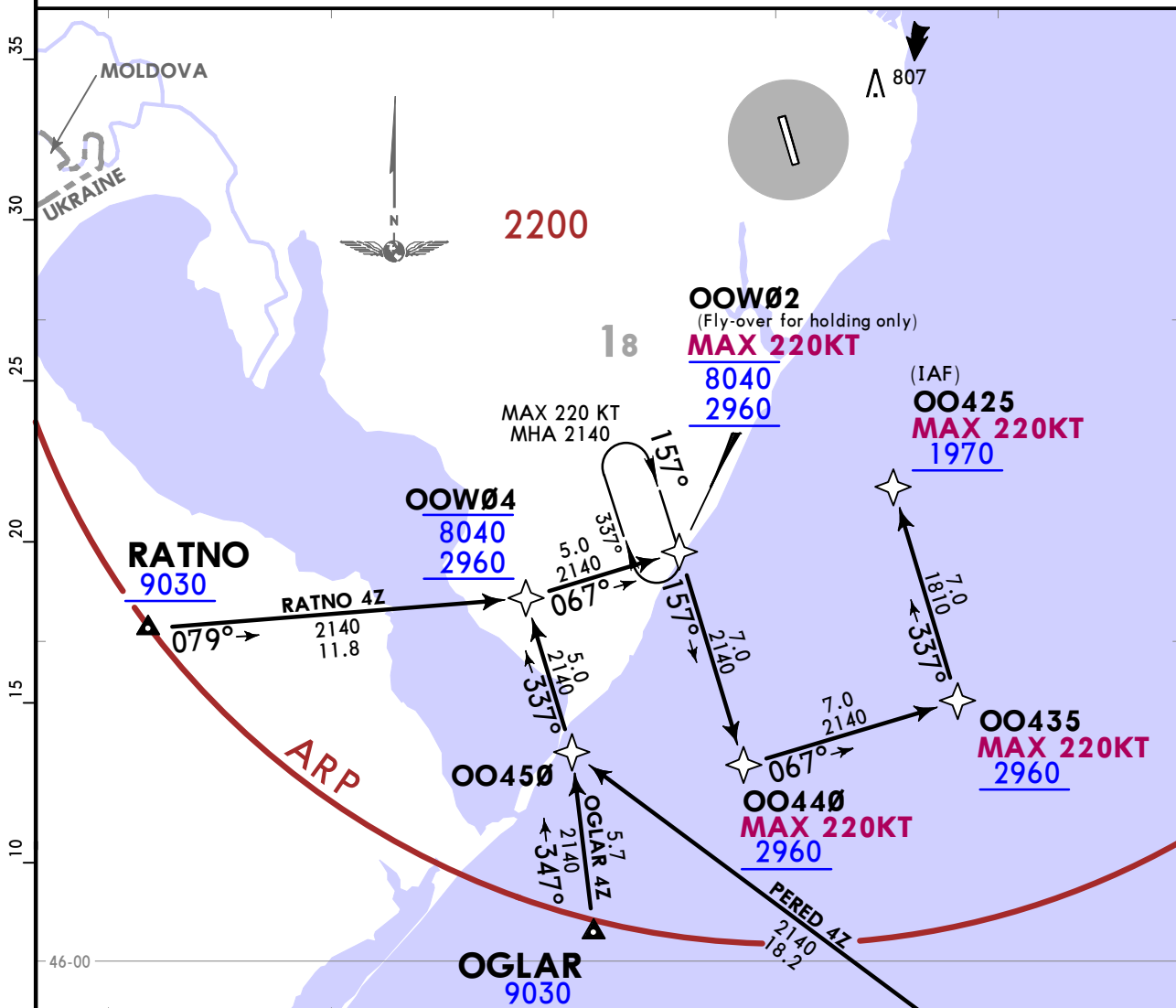
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JEPPESEN
21 FEB 20 **(10-2E)** **Eff 27 Feb**

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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**OGLAR 4Z [OGLA4Z], PERED 4Z [PERE4Z]
RATNO 4Z [RATN4Z]
RNAV (GNSS) ARRIVALS
(RWY 34)**



FT/METER CONVERSION QNH	
10010'	- 3050m
9030'	- 2750m
8040'	- 2450m
2960'	- 900m
2140'	- 650m
1970'	- 600m
1810'	- 550m

STAR	ROUTING
OGLAR 4Z	OGLAR (9030+) - OO450 - OOW04 (8040-; 2960+) - OOW02 (K220-; 8040-; 2960+) - OO440 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).
PERED 4Z	PERED (10010+) - OO450 - OOW04 (8040-; 2960+) - OOW02 (K220-; 8040-; 2960+) - OO440 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).
RATNO 4Z	RATNO (9030+) - OOW04 (8040-; 2960+) - OOW02 (K220-; 8040-; 2960+) - OO440 (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).

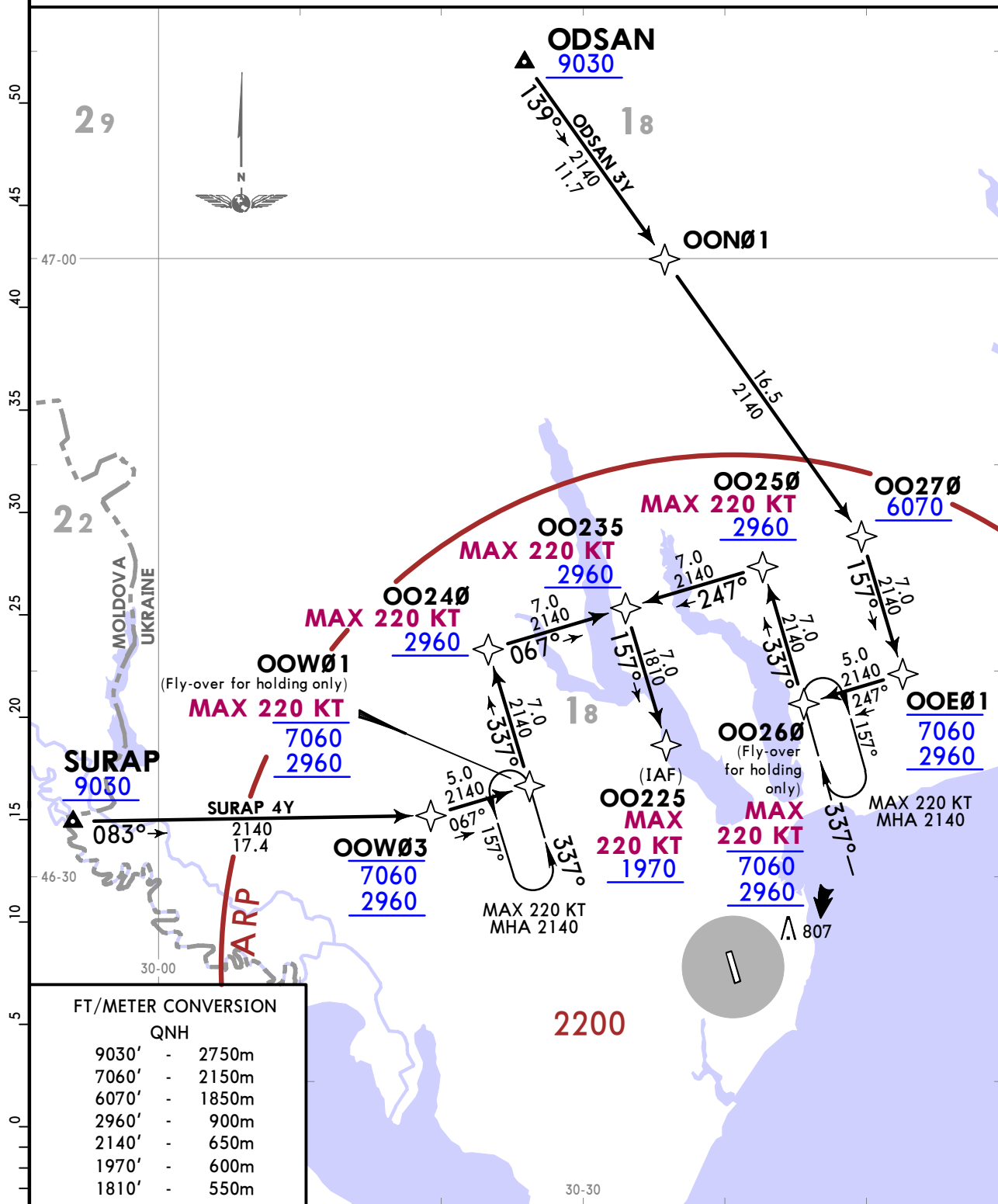
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ODESA

JEPPESEN
21 FEB 20 10-2F Eff 27 Feb

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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ODSAN 3Y [ODSA3Y], SURAP 4Y [SURA4Y]
RNAV (GNSS) ARRIVALS
(RWY 16)



FT/METER CONVERSION	
QNH	
9030'	- 2750m
7060'	- 2150m
6070'	- 1850m
2960'	- 900m
2140'	- 650m
1970'	- 600m
1810'	- 550m

STAR	ROUTING
ODSAN 3Y	ODSAN (9030+) - OON01 - OO270 (6070+) - OOE01 (7060-; 2960+) - OO260 (K220-; 7060-; 2960+) - OO250 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).
SURAP 4Y	SURAP (9030+) - OOW03 (7060-; 2960+) - OOW01 (K220-; 7060-; 2960+) - OO240 (K220-; 2960+) - OO235 (K220-; 2960+) - OO225 (K220-; 1970+).

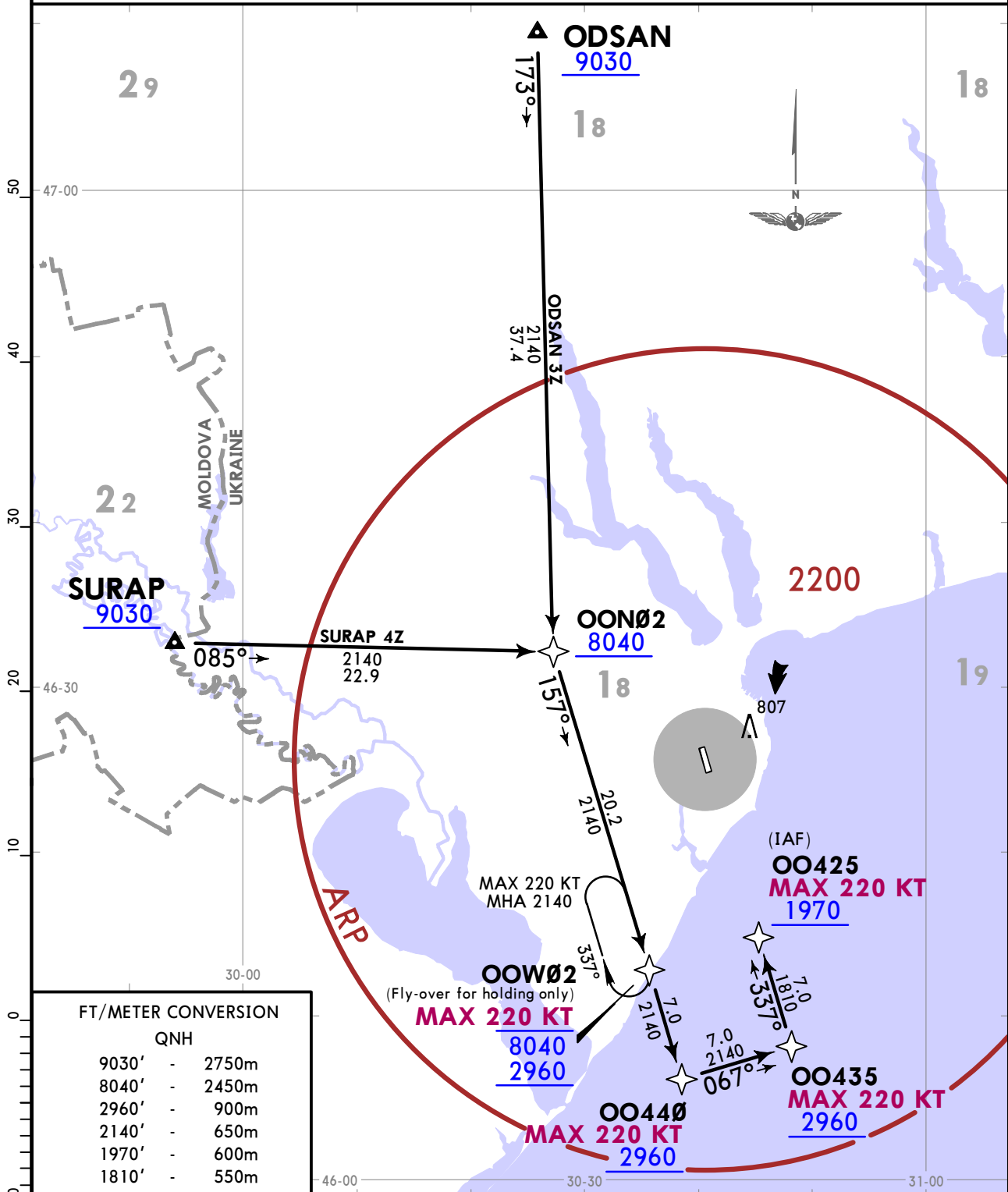
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ODESA

JEPPESEN
21 FEB 20 **(10-2G)** **Eff 27 Feb**

ODESA, UKRAINE
RNAV STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC 1. GNSS required. 2. RNAV 1 (P-RNAV) approval required, otherwise advice ATC. 3. Speed restriction on STAR is always MANDATORY unless cancelled by ATC. 4. For CDO instructions refer to 10-1P pages. 5. Altitude assignment will be issued by ATC.
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ODSAN 3Z [ODSA3Z], SURAP 4Z [SURA4Z]
RNAV (GNSS) ARRIVALS
(RWY 34)



STAR	ROUTING
ODSAN 3Z	ODSAN (9030+) - OONØ2 (8040+) - OOWØ2 (K220-; 8040-; 2960+) - OO44Ø (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).
SURAP 4Z	SURAP (9030+) - OONØ2 (8040+) - OOWØ2 (K220-; 8040-; 2960+) - OO44Ø (K220-; 2960+) - OO435 (K220-; 2960+) - OO425 (K220-; 1970+).

CHANGES: RNAV STARs renumbered & revised; new format.

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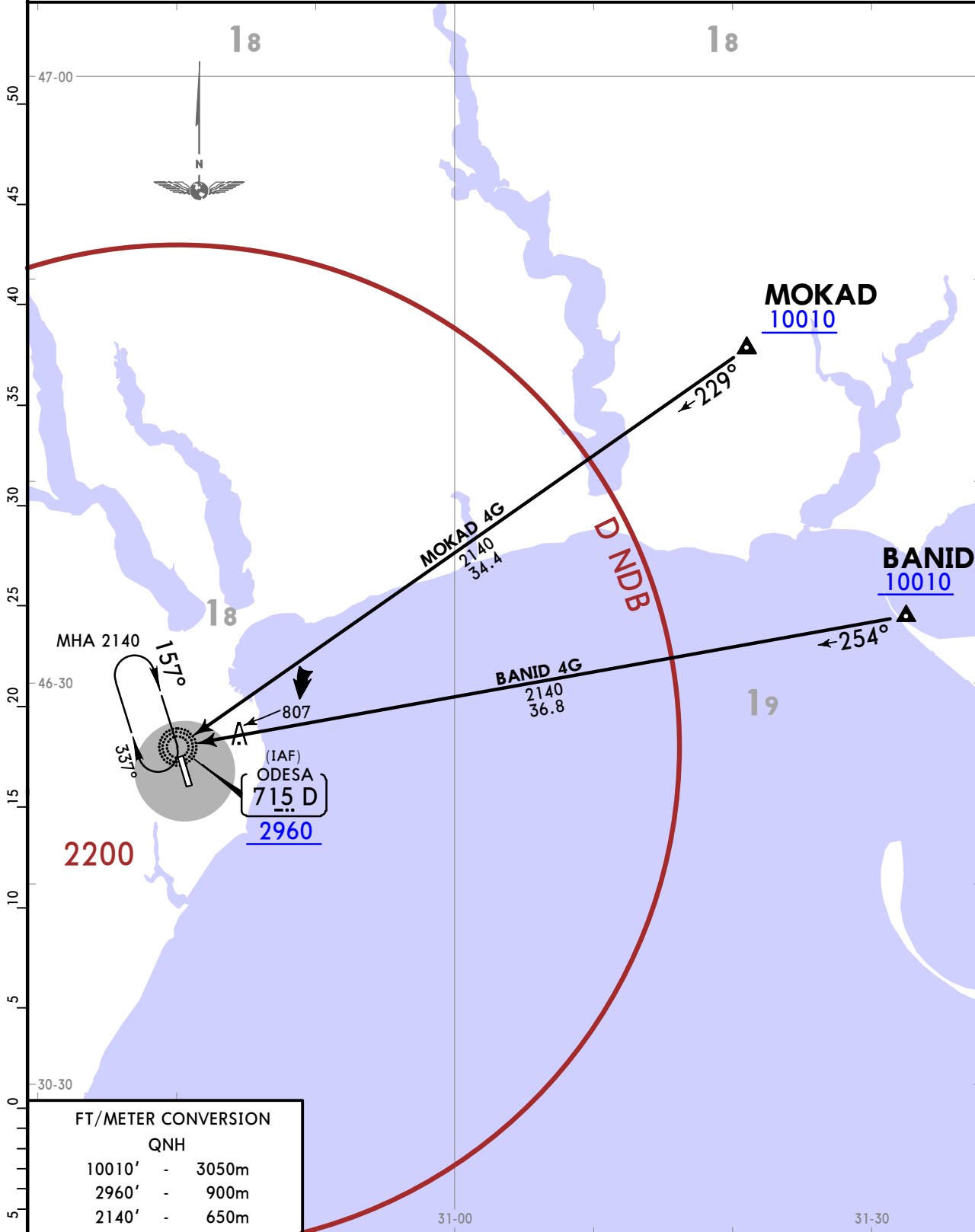
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JEPPESEN
 21 FEB 20 **10-2H** **Eff 27 Feb**

ODESA, UKRAINE
STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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BANID 4G [BANI4G]
MOKAD 4G [MOKA4G]
ARRIVALS
(RWY 16)



FT/METER CONVERSION	
QNH	
10010'	- 3050m
2960'	- 900m
2140'	- 650m

STAR	ROUTING
BANID 4G	On 254° bearing to D NDB.
MOKAD 4G	On 229° bearing to D NDB.

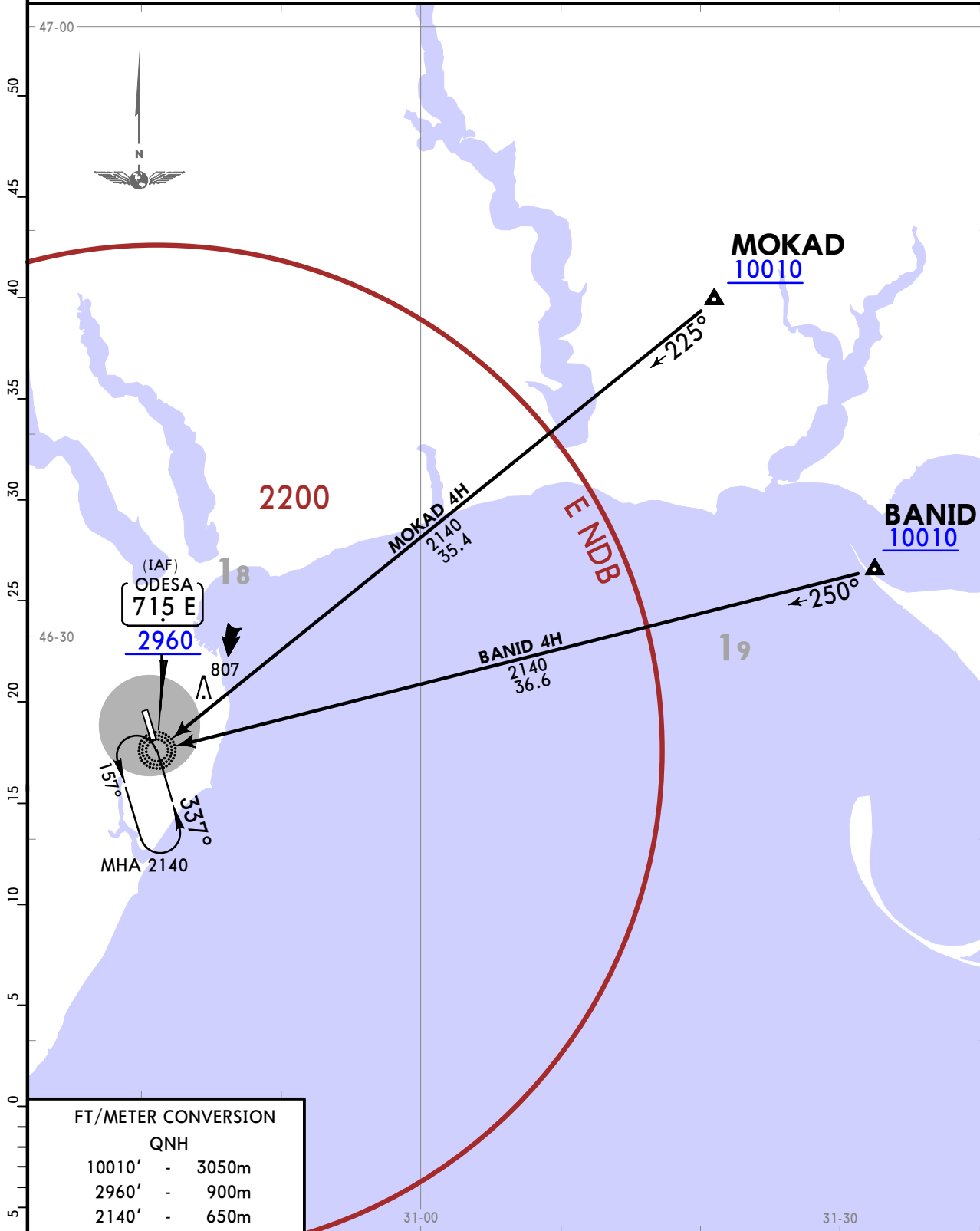
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ODESA

JEPPESEN
 21 FEB 20 **(10-2J)** **Eff 27 Feb**

ODESA, UKRAINE
STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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BANID 4H [BANI4H]
MOKAD 4H [MOKA4H]
ARRIVALS
(RWY 34)



FT/METER CONVERSION	
QNH	
10010'	- 3050m
2960'	- 900m
2140'	- 650m

STAR	ROUTING
BANID 4H	On 250° bearing to E NDB.
MOKAD 4H	On 225° bearing to E NDB.

UK00/ODS
ODESA

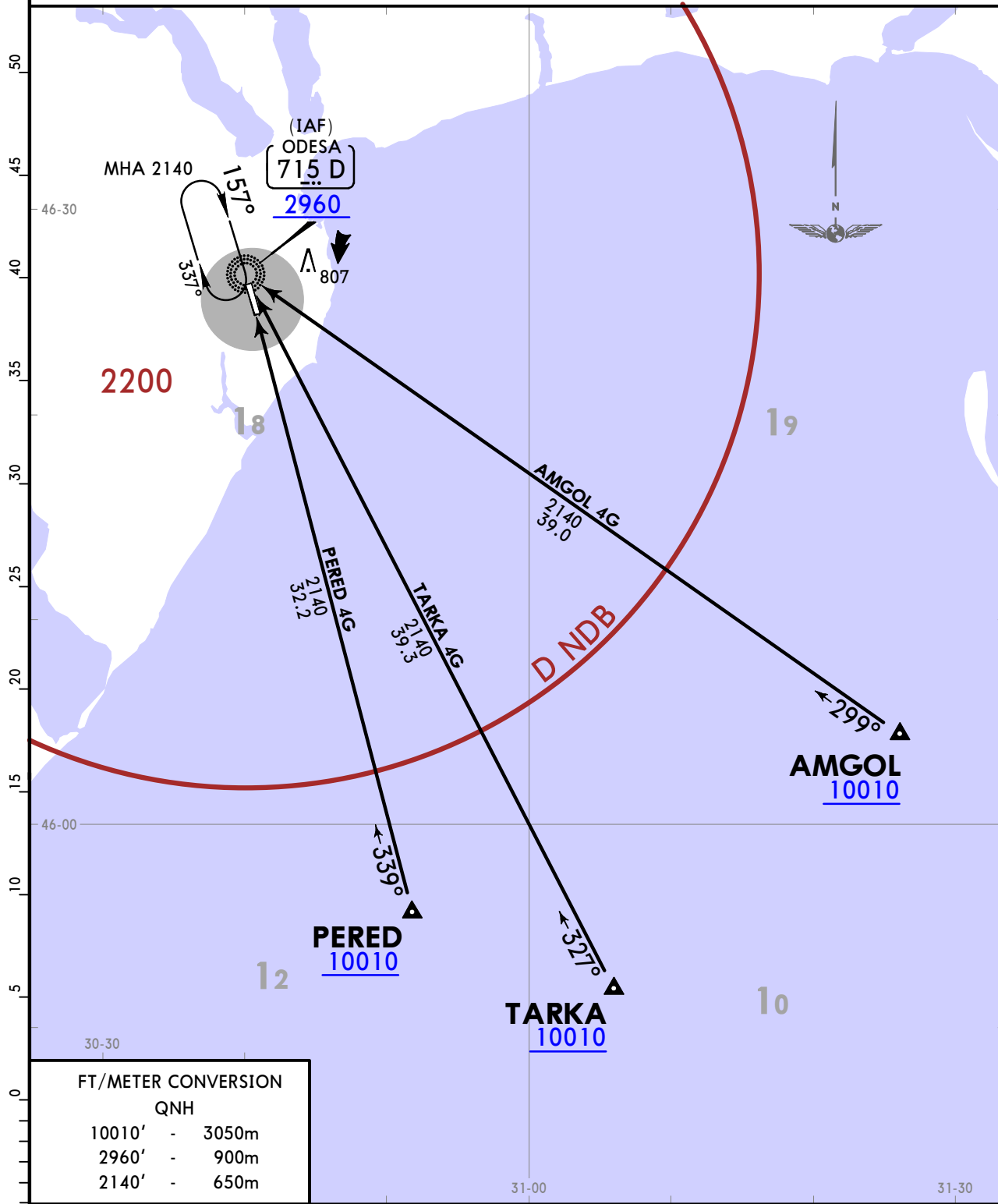
JEPPESEN
21 FEB 20 **10-2K** **Eff 27 Feb**

ODESA, UKRAINE

STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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AMGOL 4G [AMGO4G]
PERED 4G [PERE4G]
TARKA 4G [TARK4G]
ARRIVALS
(RWY 16)



STAR	ROUTING
AMGOL 4G	On 299° bearing to D NDB.
PERED 4G	On 339° bearing to D NDB.
TARKA 4G	On 327° bearing to D NDB.

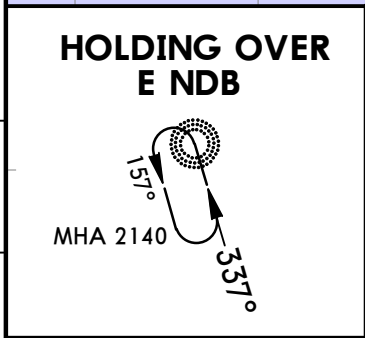
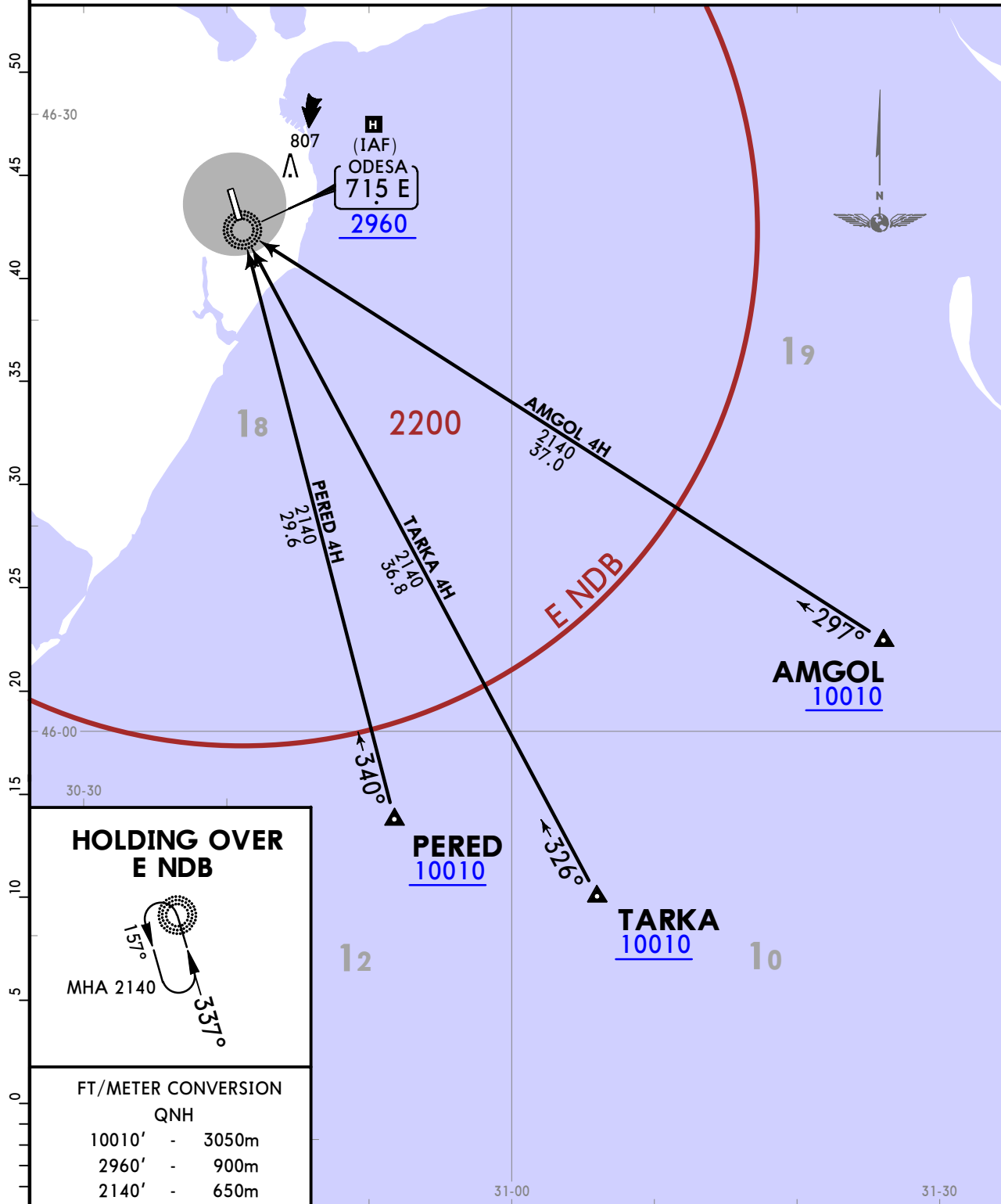
UK00/ODS
ODESA

JEPPESEN
 21 FEB 20 **10-2L** **Eff 27 Feb**

ODESA, UKRAINE
STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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AMGOL 4H [AMGO4H]
PERED 4H [PERE4H]
TARKA 4H [TARK4H]
ARRIVALS
(RWY 34)



FT/METER CONVERSION
 QNH

10010'	-	3050m
2960'	-	900m
2140'	-	650m

STAR	ROUTING
AMGOL 4H	On 297° bearing to E NDB.
PERED 4H	On 340° bearing to E NDB.
TARKA 4H	On 326° bearing to E NDB.

UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **10-2M** **Eff 27 Feb**

ODESA, UKRAINE
STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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OGLAR 4G [OGLA4G]
RATNO 4G [RATN4G]
SURAP 4G [SURA4G]
ARRIVALS
(RWY 16)



FT/METER CONVERSION	
QNH	
9030'	- 2750m
2960'	- 900m
2140'	- 650m

STAR	ROUTING
OGLAR 4G	On 006° bearing to D NDB.
RATNO 4G	On 044° bearing to D NDB.
SURAP 4G	On 094° bearing to D NDB.

UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-2N)** **Eff 27 Feb**

ODESA, UKRAINE
STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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OGLAR 4H [OGLA4H]
RATNO 4H [RATN4H]
SURAP 4H [SURA4H]
ARRIVALS
(RWY 34)



STAR	ROUTING
OGLAR 4H	On 009° bearing to E NDB.
RATNO 4H	On 049° bearing to E NDB.
SURAP 4H	On 098° bearing to E NDB.

UKOO/ODS
ODESA

JEPPESEN
21 FEB 20 10-2P Eff 27 Feb

ODESA, UKRAINE

STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
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ODSAN 2G ARRIVAL
[ODSA2G]
(RWY 16)



FT/METER CONVERSION	
QNH	
9030'	- 2750m
2960'	- 900m
2140'	- 650m

ROUTING
On 161° bearing to D NDB.

UK00/ODS
ODESA

JEPPESEN
21 FEB 20 10-2Q Eff 27 Feb

ODESA, UKRAINE
STAR

ATIS 133.1 (Russian 124.8)	Apt Elev 171	Alt Set: hPa (MM on request) Trans level: By ATC
---	------------------------	---

ODSAN 2H ARRIVAL
[ODSA2H]
(RWY 34)



ROUTING
On 161° bearing to E NDB.

UK00/ODS
ODESA

JEPPESEN

ODESA, UKRAINE

21 FEB 20

10-3

Eff 27 Feb

RNAV SID

Apt Elev
171

- Trans alt: 10010
 1. GNSS required.
 2. RNAV 1 (P-RNAV) approval required, otherwise advise ATC.
 3. If unable to comply departure procedures advise ATC.

**ODSAN 2W [ODSA2W], VAKOM 2W [VAKO2W]
 XONKO 2W [XONK2W]
 RNAV (GNSS) DEPARTURES
 (RWY 16)**

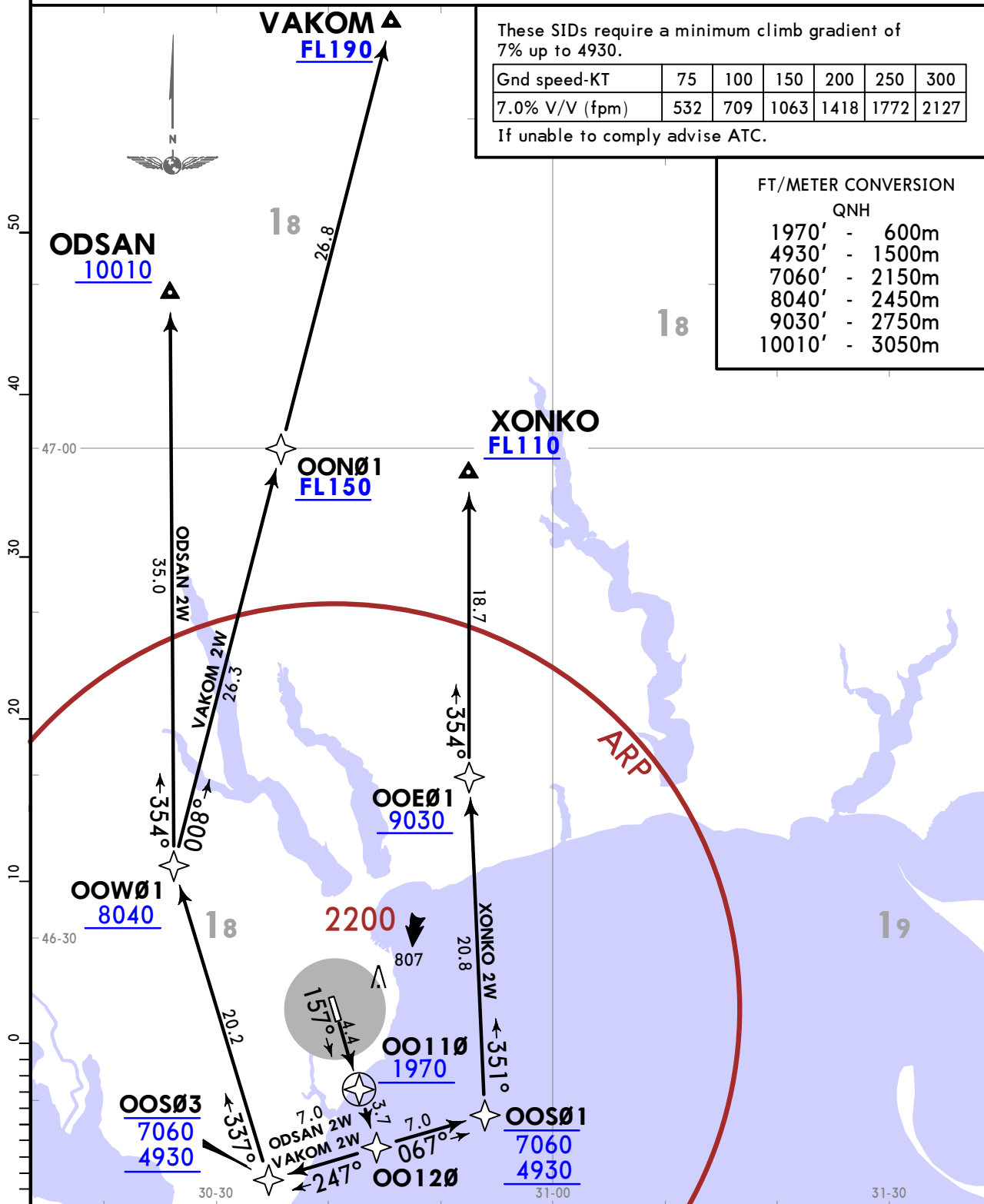
These SIDs require a minimum climb gradient of 7% up to 4930.

Gnd speed-KT	75	100	150	200	250	300
7.0% V/V (fpm)	532	709	1063	1418	1772	2127

If unable to comply advise ATC.

FT/METER CONVERSION

	QNH
1970'	600m
4930'	1500m
7060'	2150m
8040'	2450m
9030'	2750m
10010'	3050m



SID	ROUTING
ODSAN 2W	OO110 (1970+) - OO120 - OOS03 (4930+; 7060-) - OOW01 (8040+) - ODSAN (10010+).
VAKOM 2W	OO110 (1970+) - OO120 - OOS03 (4930+; 7060-) - OOW01 (8040+) - OON01 (FL150+) - VAKOM (FL190+).
XONKO 2W	OO110 (1970+) - OO120 - OOS01 (4930+; 7060-) - OOE01 (9030+) - XONKO (FL110+).

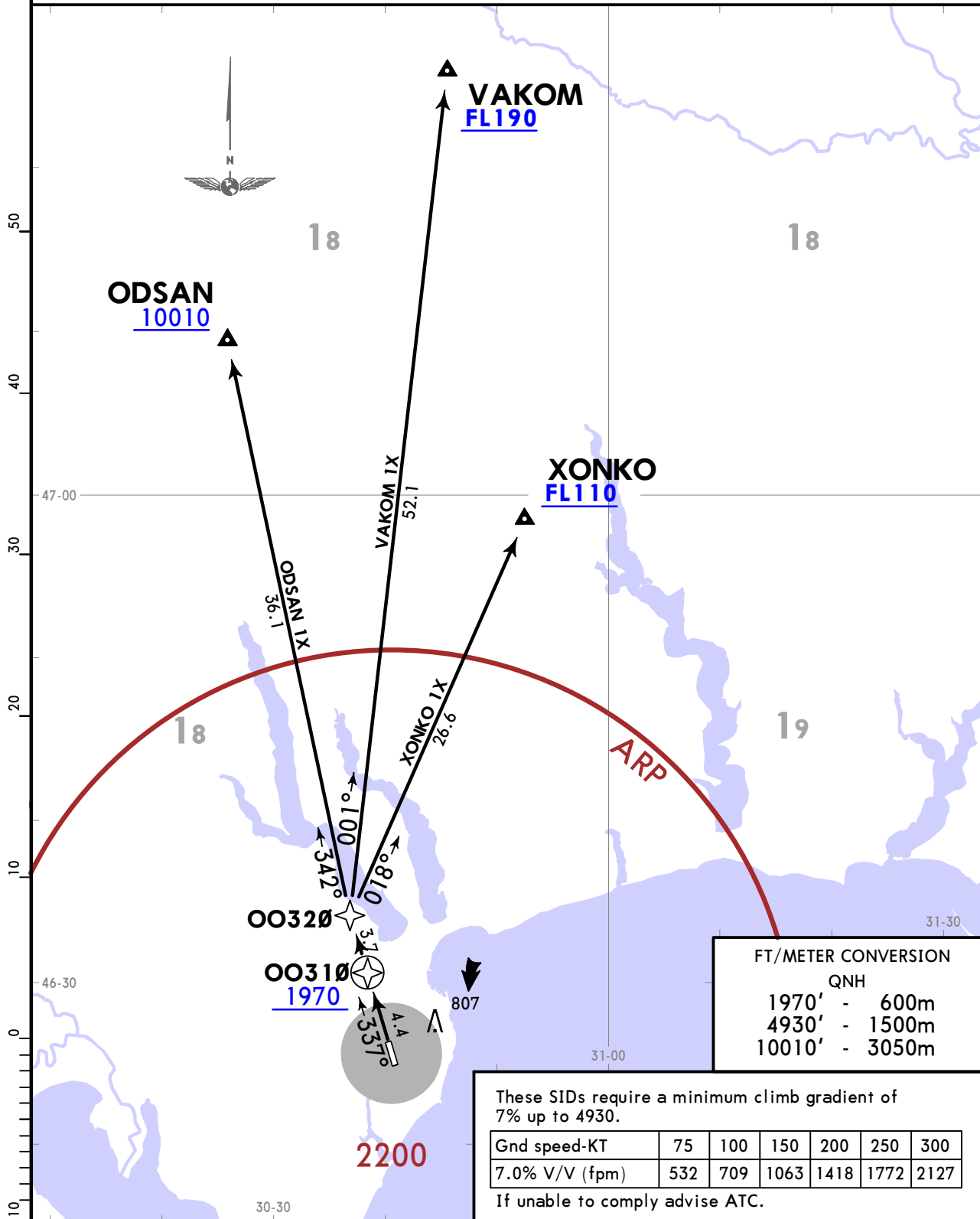
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-3A)** Eff 27 Feb

ODESA, UKRAINE
RNAV SID

Apt Elev 171
Trans alt: 10010
1. GNSS required.
2. RNAV 1 (P-RNAV) approval required, otherwise advise ATC.
3. If unable to comply departure procedures advise ATC.

**ODSAN 1X [ODSA1X], VAKOM 1X [VAKO1X]
XONKO 1X [XONK1X]
RNAV (GNSS) DEPARTURES
(RWY 34)**



SID	ROUTING
ODSAN 1X	OO310 (1970+) - OO320 - ODSAN (10010+).
VAKOM 1X	OO310 (1970+) - OO320 - VAKOM (FL190+).
XONKO 1X	OO310 (1970+) - OO320 - XONKO (FL110+).

UK00/ODS
ODESA

JEPPESSEN

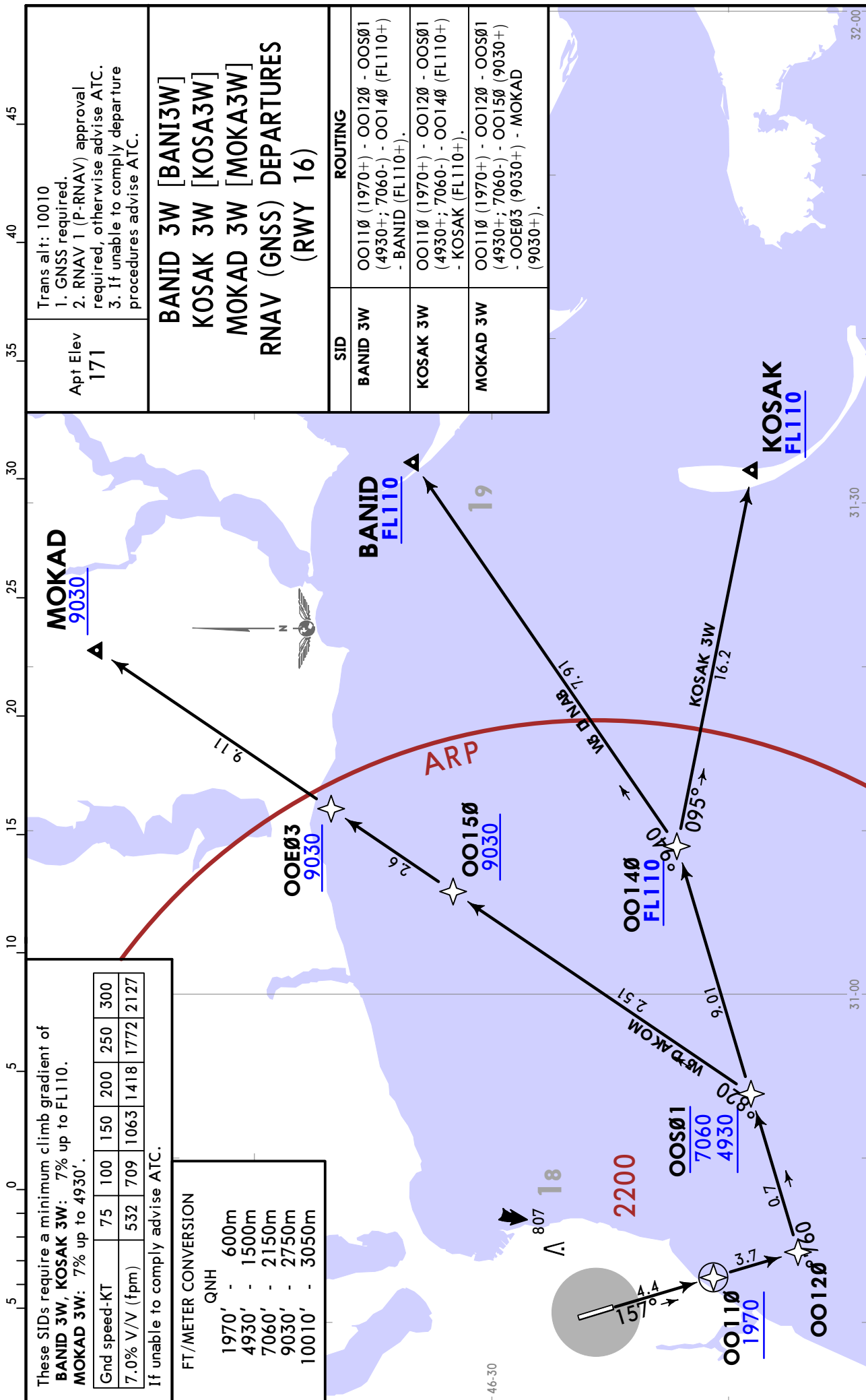
ODESA, UKRAINE

21 FEB 20

10-3B

Eff 27 Feb

RNAV SID



Trans alt: 10010
1. GNSS required.
2. RNAV 1 (P-RNAV) approval required, otherwise advise ATC.
3. If unable to comply departure procedures advise ATC.

Apt Elev
171

BANID 3W [BANI3W]
KOSAK 3W [KOSA3W]
MOKAD 3W [MOKA3W]
RNAV (GNSS) DEPARTURES (RWY 16)

SID	ROUTING
BANID 3W	OO110 (1970+) - OO120 - OOS01 (4930+; 7060-) - OO140 (FL110+) - BANID (FL110+).
KOSAK 3W	OO110 (1970+) - OO120 - OOS01 (4930+; 7060-) - OO140 (FL110+) - KOSAK (FL110+).
MOKAD 3W	OO110 (1970+) - OO120 - OOS01 (4930+; 7060-) - OO150 (9030+) - OOE03 (9030+) - MOKAD (9030+).

These SIDs require a minimum climb gradient of **BANID 3W, KOSAK 3W: 7% up to FL110.**
MOKAD 3W: 7% up to 4930'.

Gnd speed-KT	75	100	150	200	250	300
7.0% V/V (fpm)	532	709	1063	1418	1772	2127

If unable to comply advise ATC.

FT./METER CONVERSION

QNH	
1970'	- 600m
4930'	- 1500m
7060'	- 2150m
9030'	- 2750m
10010'	- 3050m

UK00/ODS
ODESA

JEPPESSEN

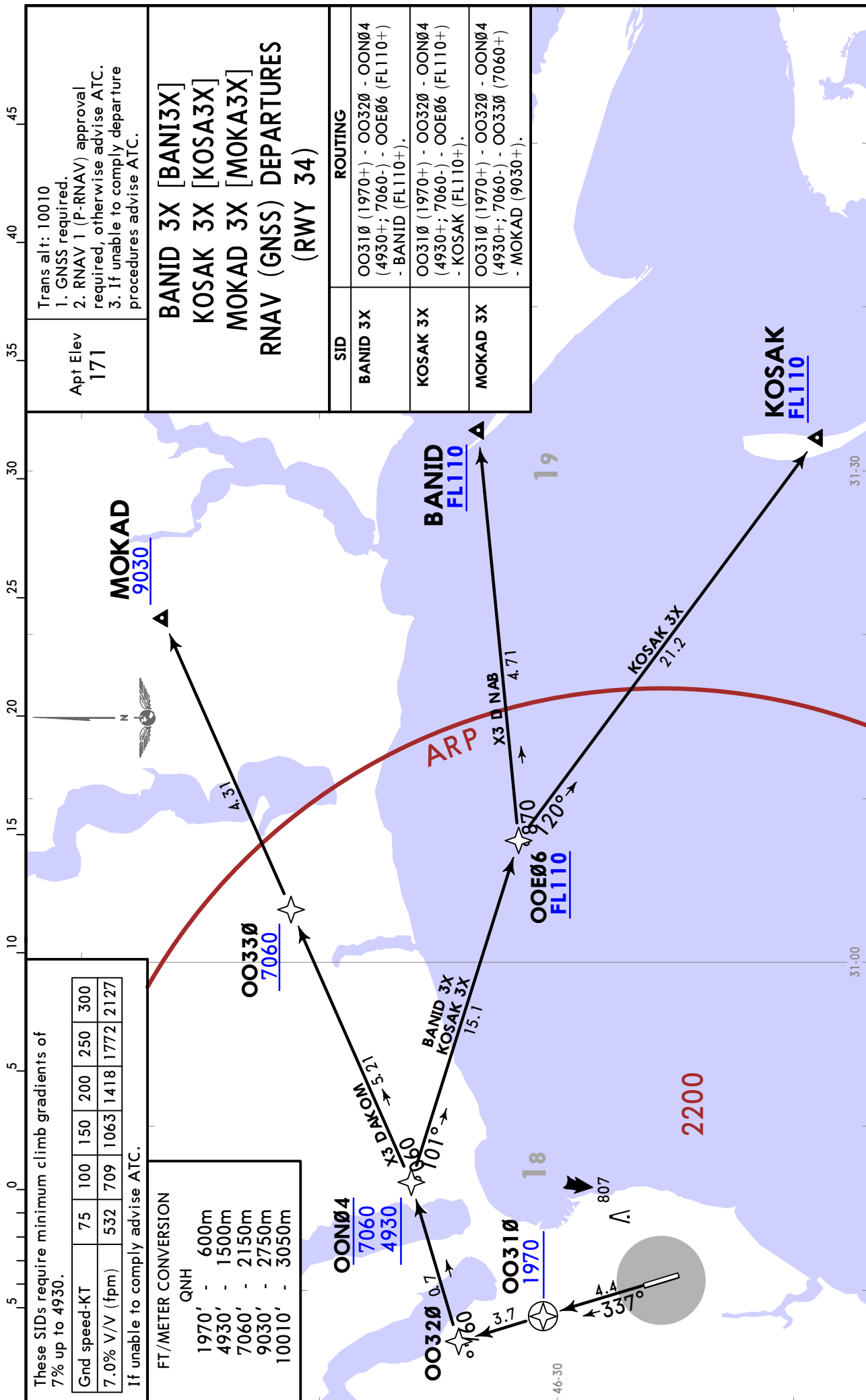
ODESA, UKRAINE

21 FEB 20

10-3C

Eff 27 Feb

RNAV SID



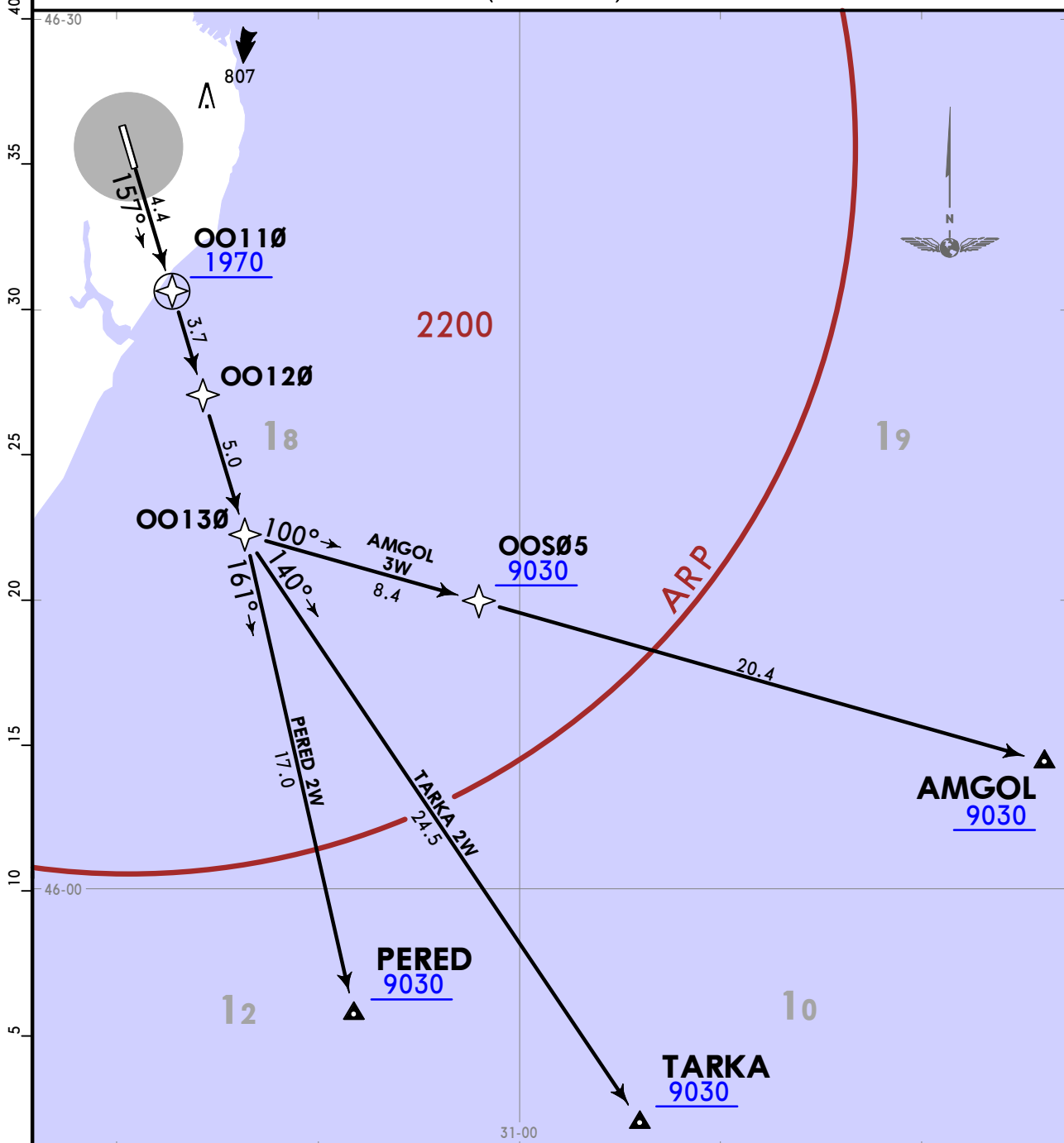
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-3D)** Eff 27 Feb

ODESA, UKRAINE
RNAV SID

Apt Elev 171
Trans alt: 10010
1. GNSS required.
2. RNAV 1 (P-RNAV) approval required, otherwise advise ATC.
3. If unable to comply departure procedures advise ATC.

**AMGOL 3W [AMG03W], PERED 2W [PERE2W]
TARKA 2W [TARK2W]
RNAV (GNSS) DEPARTURES
(RWY 16)**



FT/METER CONVERSION

FT	METER
1970'	600m
4930'	1500m
9030'	2750m
10010'	3050m

These SIDs require a minimum climb gradient of
AMGOL 3W: 7% up to 9030.
PERED 2W, TARKA 2W: 7% up to 4930.

Gnd speed-KT	75	100	150	200	250	300
7.0% V/V (fpm)	532	709	1063	1418	1772	2127

If unable to comply advise ATC.

SID	ROUTING
AMGOL 3W	OO110 (1970+) - OO120 - OO130 - OOS05 (9030+) - AMGOL (9030+).
PERED 2W	OO110 (1970+) - OO120 - OO130 - PERED (9030+).
TARKA 2W	OO110 (1970+) - OO120 - OO130 - TARKA (9030+).

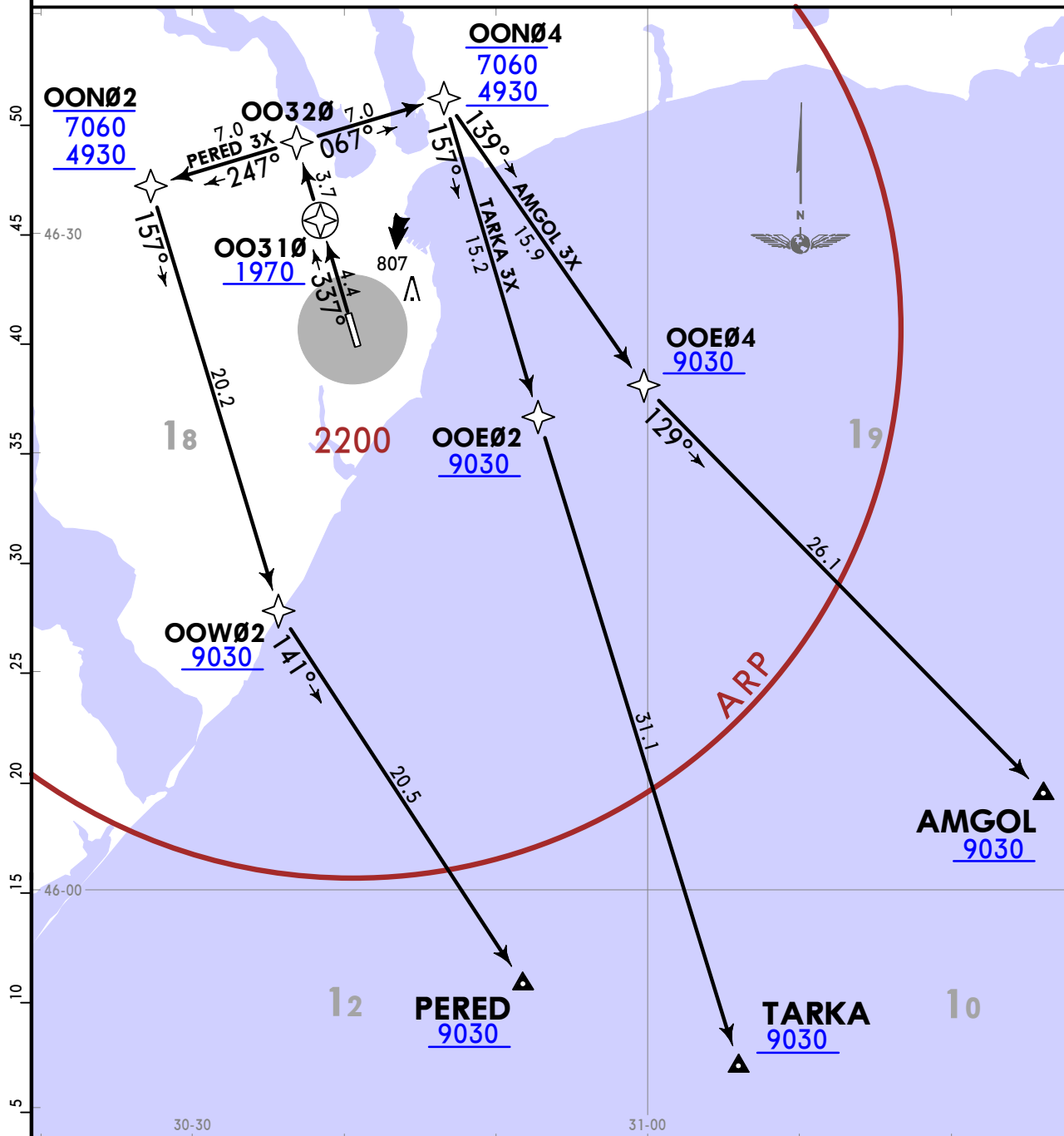
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-3E)** **Eff 27 Feb**

ODESA, UKRAINE
RNAV SID

Apt Elev 171
Trans alt: 10010
1. GNSS required.
2. RNAV 1 (P-RNAV) approval required, otherwise advise ATC.
3. If unable to comply departure procedures advise ATC.

**AMGOL 3X [AMG03X], PERED 3X [PERE3X]
TARKA 3X [TARK3X]
RNAV (GNSS) DEPARTURES
(RWY 34)**



FT/METER CONVERSION

	QNH
1970'	600m
4930'	1500m
7060'	2150m
9030'	2750m
10010'	3050m

These SIDs require minimum climb gradients of 7% up to 4930.

Gnd speed-KT	75	100	150	200	250	300
7.0% V/V (fpm)	532	709	1063	1418	1772	2127

If unable to comply advise ATC.

SID	ROUTING
AMGOL 3X	OO310 (1970+) - OO320 - OON04 (4930+;7060-) - OOE04 (9030+) - AMGOL (9030+).
PERED 3X	OO310 (1970+) - OO320 - OON02 (4930+;7060-) - OOW02 (9030+) - PERED (9030+).
TARKA 3X	OO310 (1970+) - OO320 - OON04 (4930+;7060-) - OOE02 (9030+) - TARKA (9030+).

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ODESA

JEPPESSEN

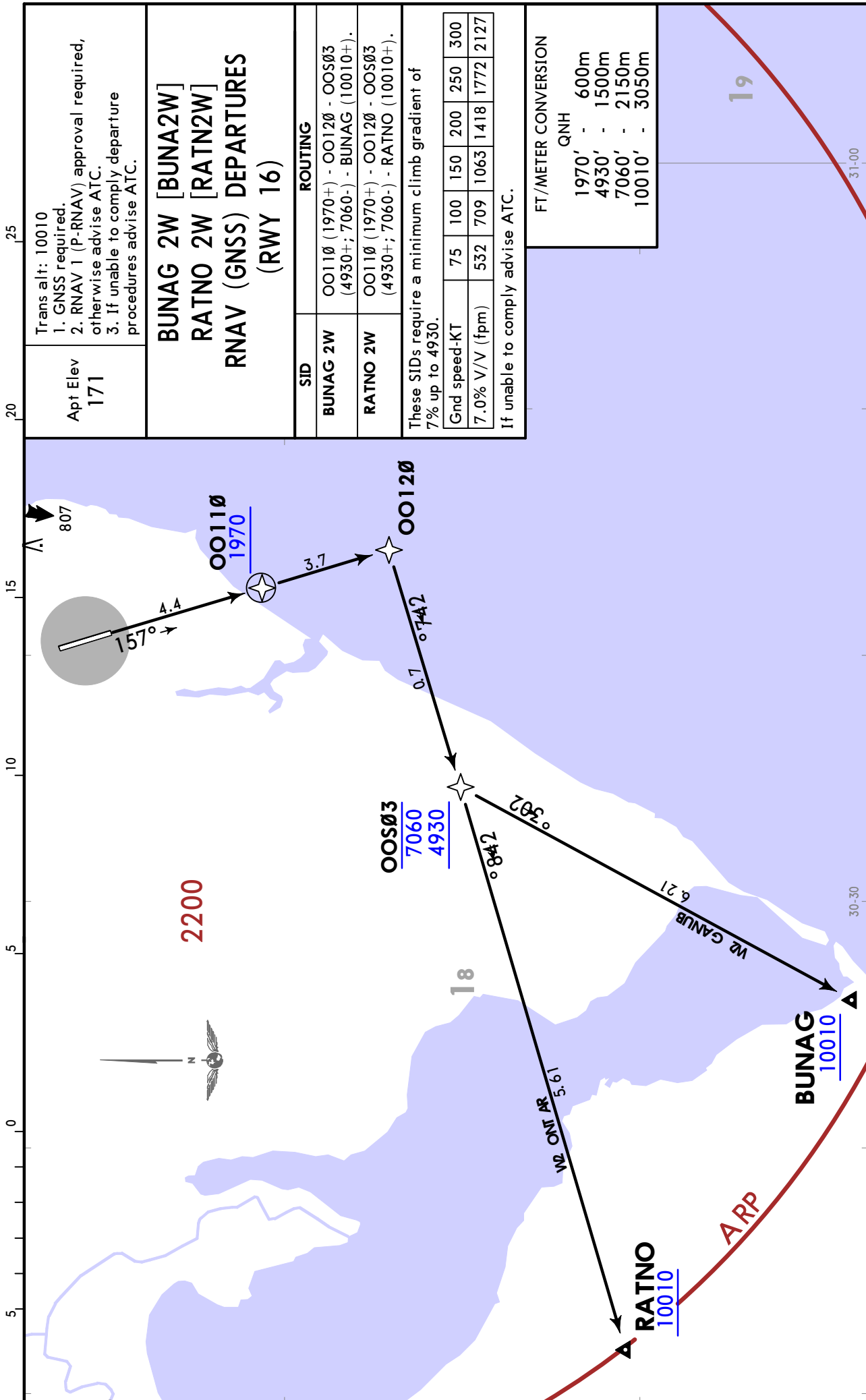
ODESA, UKRAINE

21 FEB 20

10-3F

Eff 27 Feb

RNAV SID



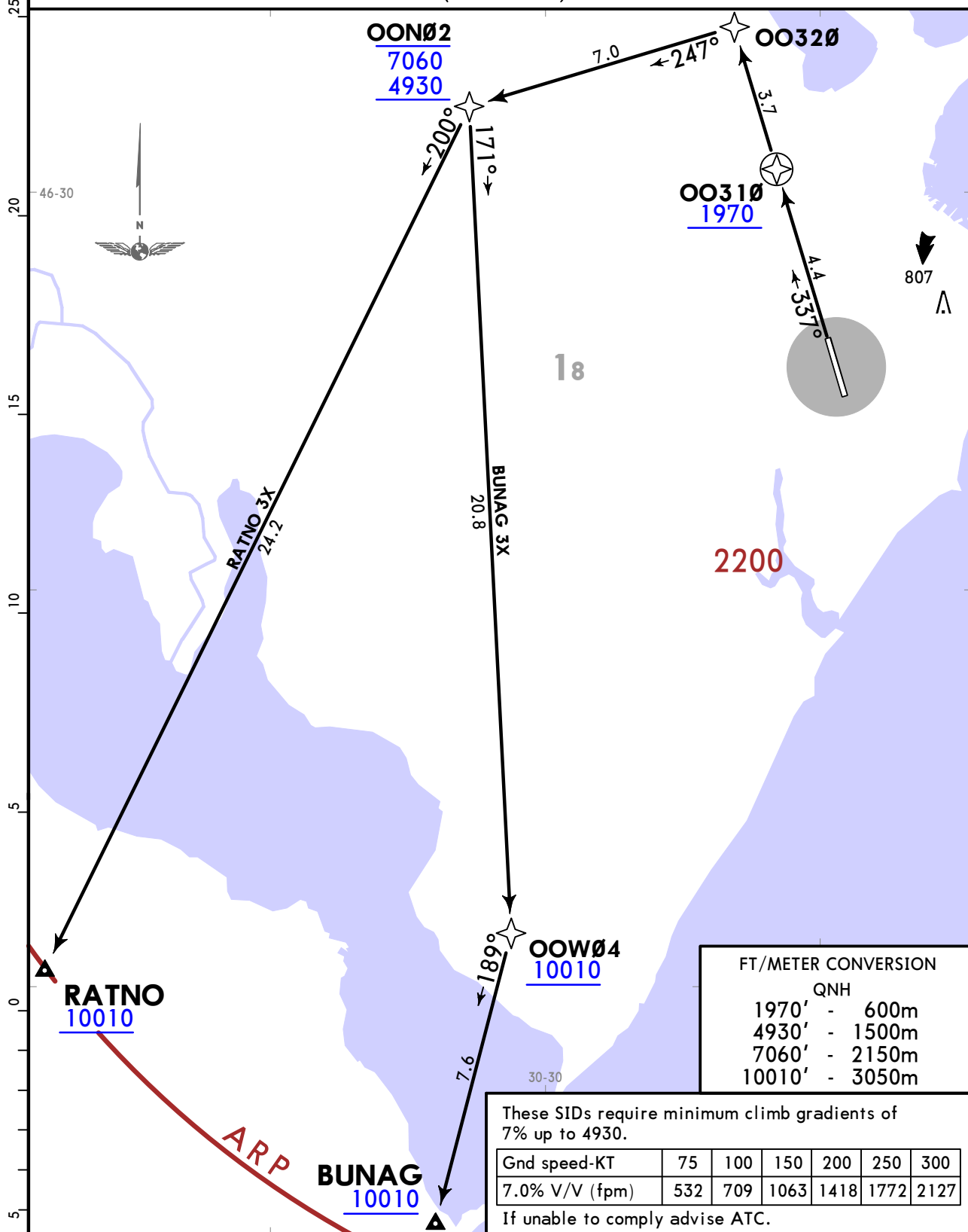
UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-3G)** Eff 27 Feb

ODESA, UKRAINE
RNAV SID

Apt Elev 171
Trans alt: 10010
1. GNSS required.
2. RNAV 1 (P-RNAV) approval required, otherwise advise ATC.
3. If unable to comply departure procedures advise ATC.

BUNAG 3X [BUNA3X]
RATNO 3X [RATN3X]
RNAV (GNSS) DEPARTURES
(RWY 34)



SID	ROUTING
BUNAG 3X	OO310 (1970+) - OO320 - OON02 (4930+; 7060-) - OOW04 (10010+) - BUNAG (10010+).
RATNO 3X	OO310 (1970+) - OO320 - OON02 (4930+; 7060-) - RATNO (10010+).

UK00/ODS
ODESA

JEPPESSEN

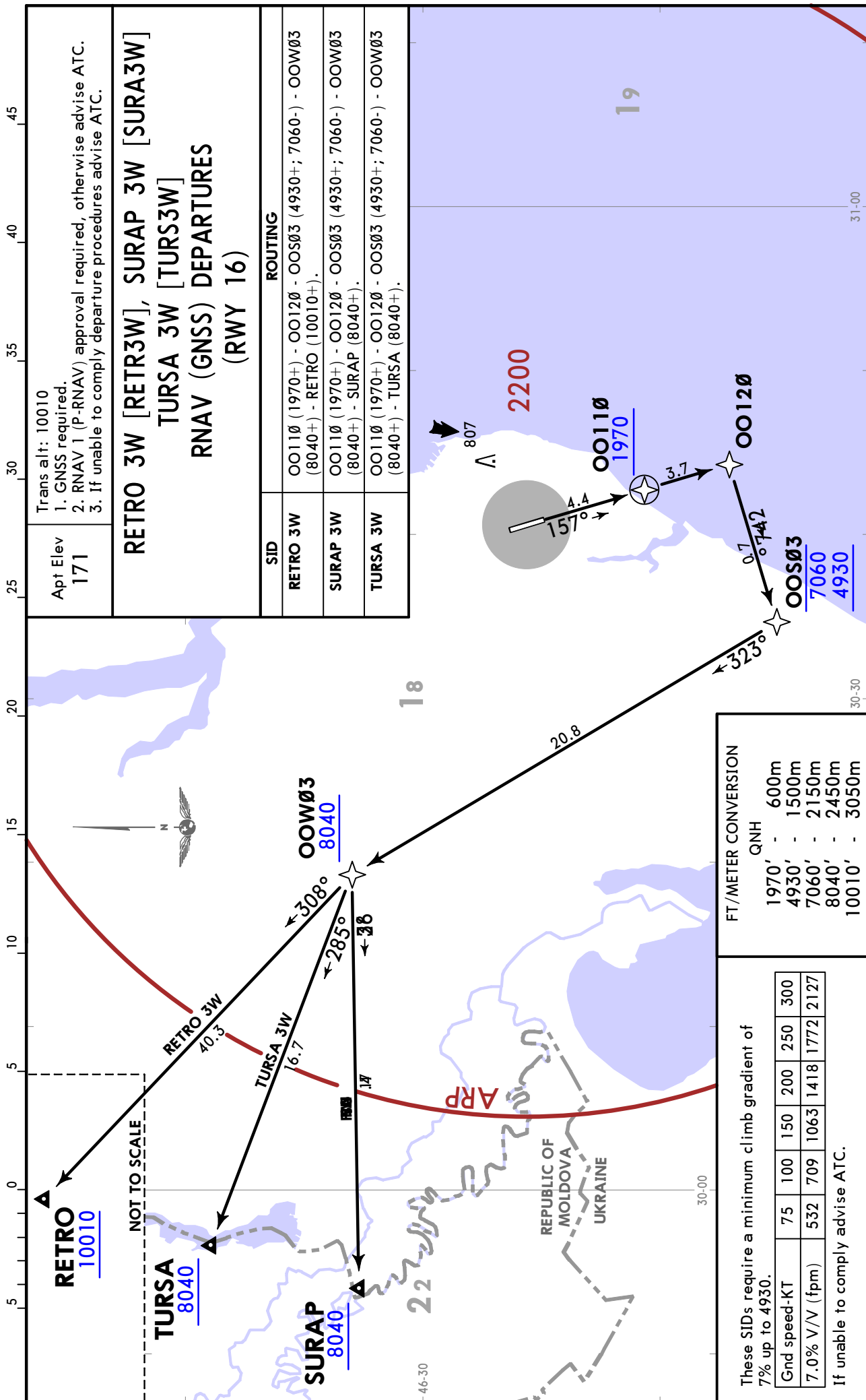
ODESA, UKRAINE

21 FEB 20

10-3H

Eff 27 Feb

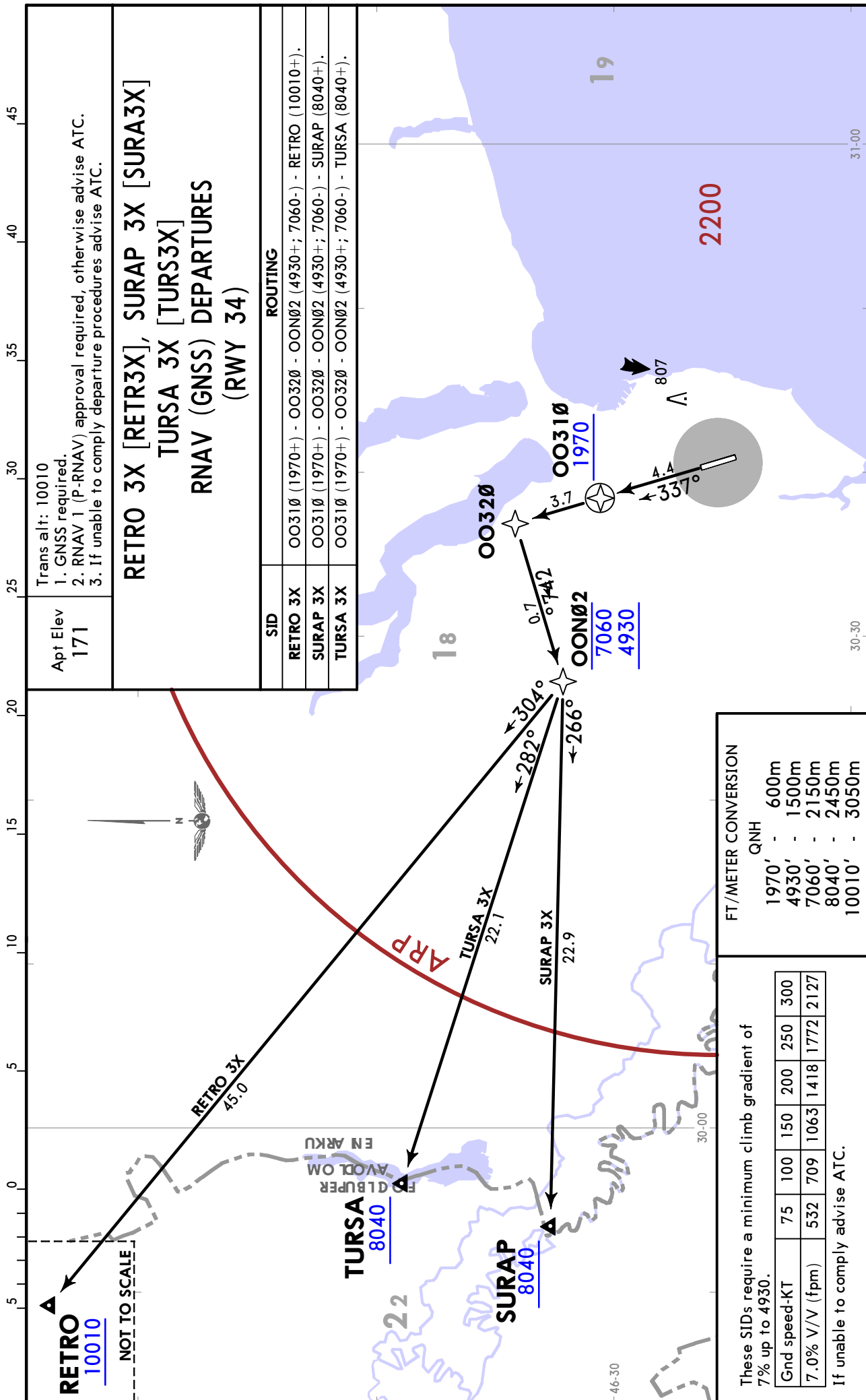
RNAV SID



UK00/ODS
ODESA

JEPPESSEN
21 FEB 20 10-3J Eff 27 Feb

ODESA, UKRAINE
RNAV SID



UK00/ODS
ODESA

JEPPESEN
21 FEB 20 **(10-3K)** **Eff 27 Feb**

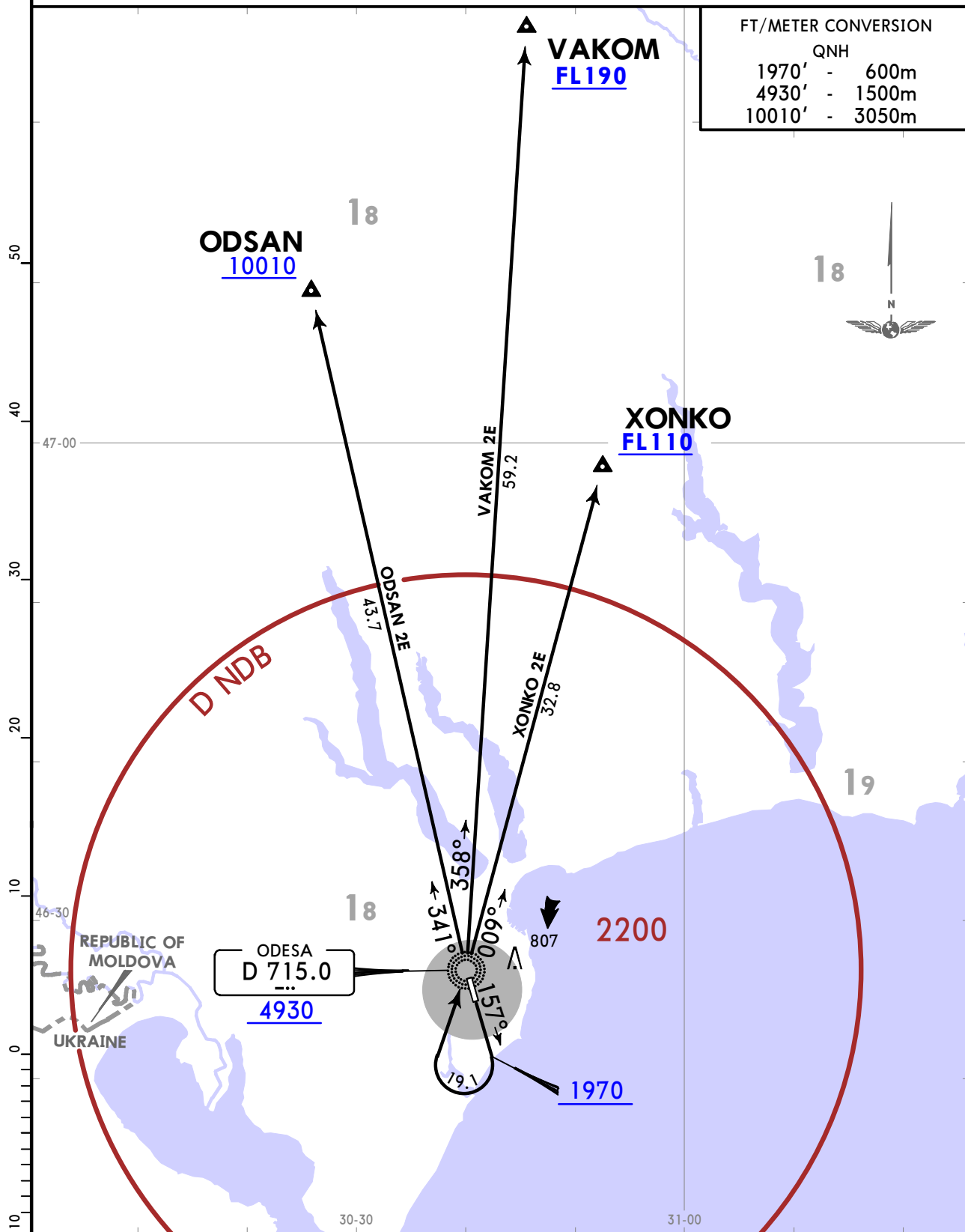
ODESA, UKRAINE

SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

**ODSAN 2E [ODSA2E], VAKOM 2E [VAKO2E]
XONKO 2E [XONK2E]
DEPARTURES
(RWY 16)**

FT/METER CONVERSION	
QNH	
1970'	- 600m
4930'	- 1500m
10010'	- 3050m



SID	ROUTING
ODSAN 2E	Climb on 157° track to 1970, turn RIGHT to D NDB, turn LEFT, 341° bearing to ODSAN.
VAKOM 2E	Climb on 157° track to 1970, turn RIGHT to D NDB, turn LEFT, 358° bearing to VAKOM.
XONKO 2E	Climb on 157° track to 1970, turn RIGHT to D NDB, turn LEFT, 009° bearing to XONKO.

CHANGES: SIDs renumbered & revised; MSA; new format.

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JEPESEN
21 FEB 20 **10-3L** **Eff 27 Feb**

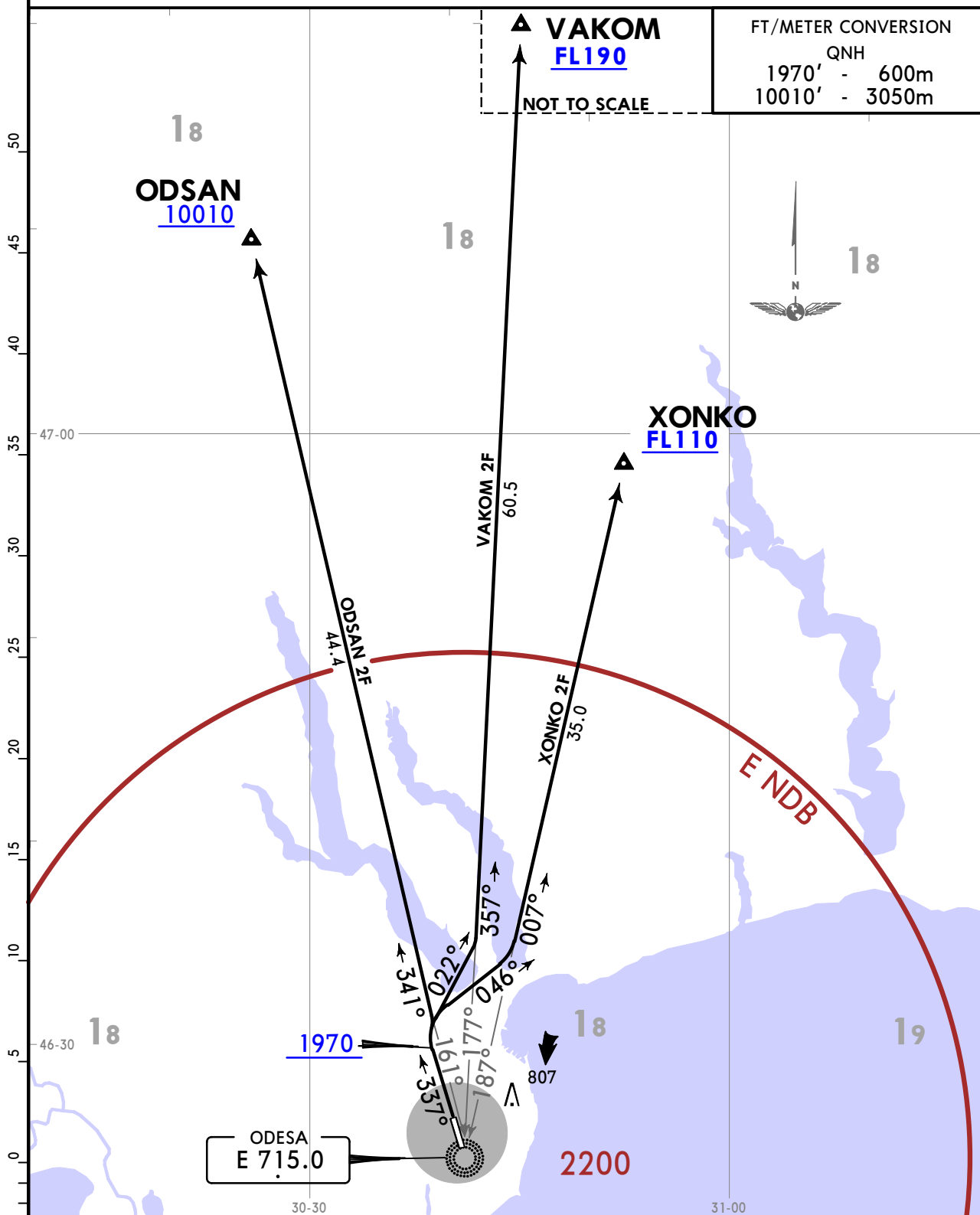
ODESA, UKRAINE

SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

**ODSAN 2F [ODSA2F], VAKOM 2F [VAKO2F]
XONKO 2F [XONK2F]
DEPARTURES
(RWY 34)**

FT/METER CONVERSION
QNH
1970' - 600m
10010' - 3050m



SID	ROUTING
ODSAN 2F	Climb on 337° track to 1970, turn RIGHT, intercept 341° bearing from E NDB to ODSAN.
VAKOM 2F	Climb on 337° track to 1970, turn RIGHT, 022° track, turn LEFT, intercept 357° bearing from E NDB to VAKOM.
XONKO 2F	Climb on 337° track to 1970, turn RIGHT, 046° track, turn LEFT, intercept 007° bearing from E NDB to XONKO.

CHANGES: SIDs renumbered & revised; MSA; new format.

UK00/ODS
ODESA

JEPPESEN
21 FEB 20 (10-3M) Eff 27 Feb

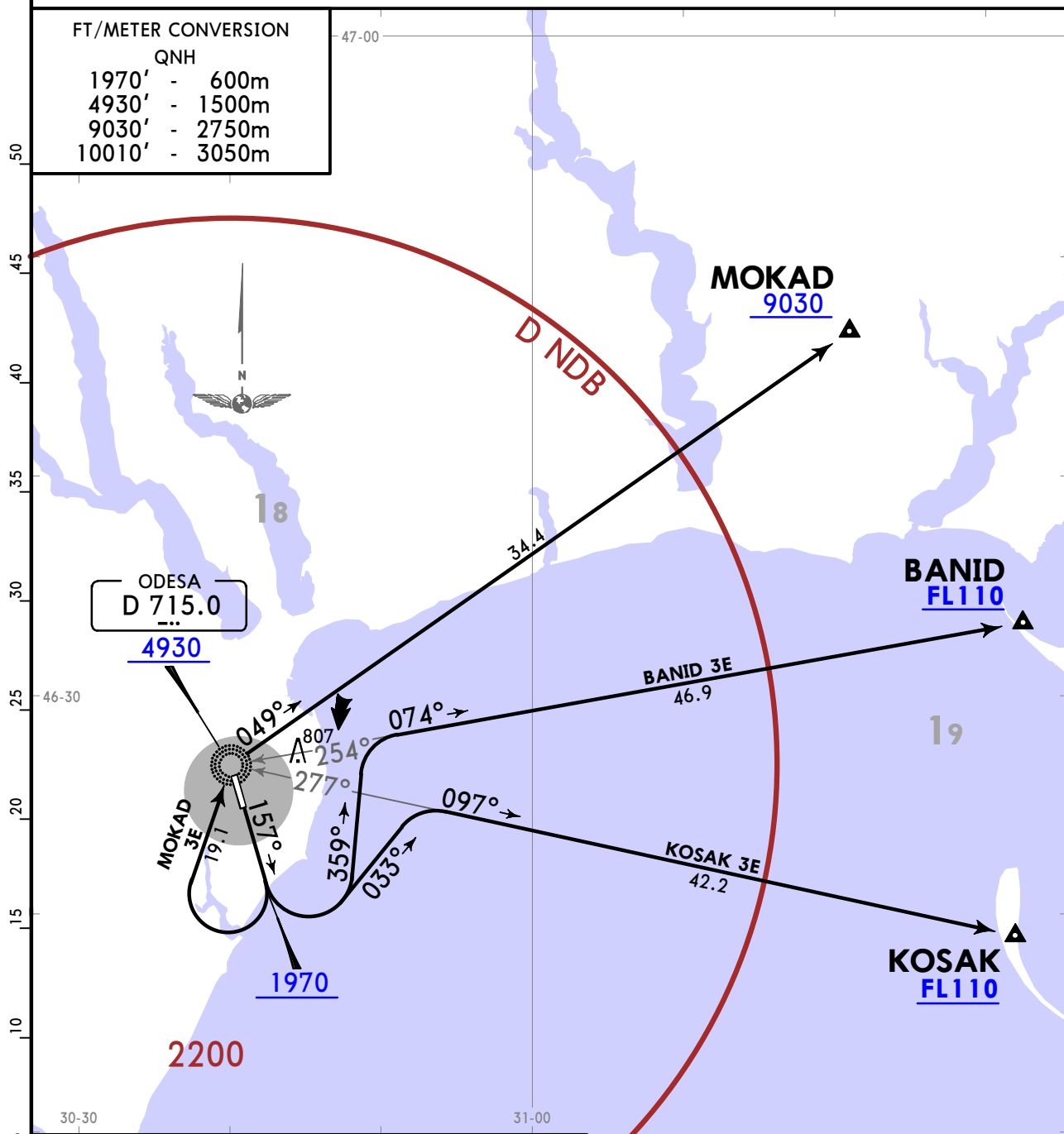
ODESA, UKRAINE
SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

**BANID 3E [BANI3E], KOSAK 3E [KOSA3E]
MOKAD 3E [MOKA3E]
DEPARTURES
(RWY 16)**

FT/METER CONVERSION
QNH

1970'	-	600m
4930'	-	1500m
9030'	-	2750m
10010'	-	3050m



BANID 3E, KOSAK 3E
These SIDs require a minimum climb gradient of 7.5% up to FL110.

Gnd speed-KT	75	100	150	200	250	300
7.5% V/V (fpm)	570	760	1139	1519	1899	2279

If unable to comply advise ATC.

SID	ROUTING
BANID 3E	Climb on 157° track to 1970, turn LEFT, 359° track, turn RIGHT, intercept 074° bearing from D NDB to BANID.
KOSAK 3E	Climb on 157° track to 1970, turn LEFT, 033° track, turn RIGHT, intercept 097° bearing from D NDB to KOSAK.
MOKAD 3E	Climb on 157° track to 1970, turn RIGHT to D NDB, turn RIGHT, 049° bearing to MOKAD.

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JEPPESEN
21 FEB 20 (10-3N) Eff 27 Feb

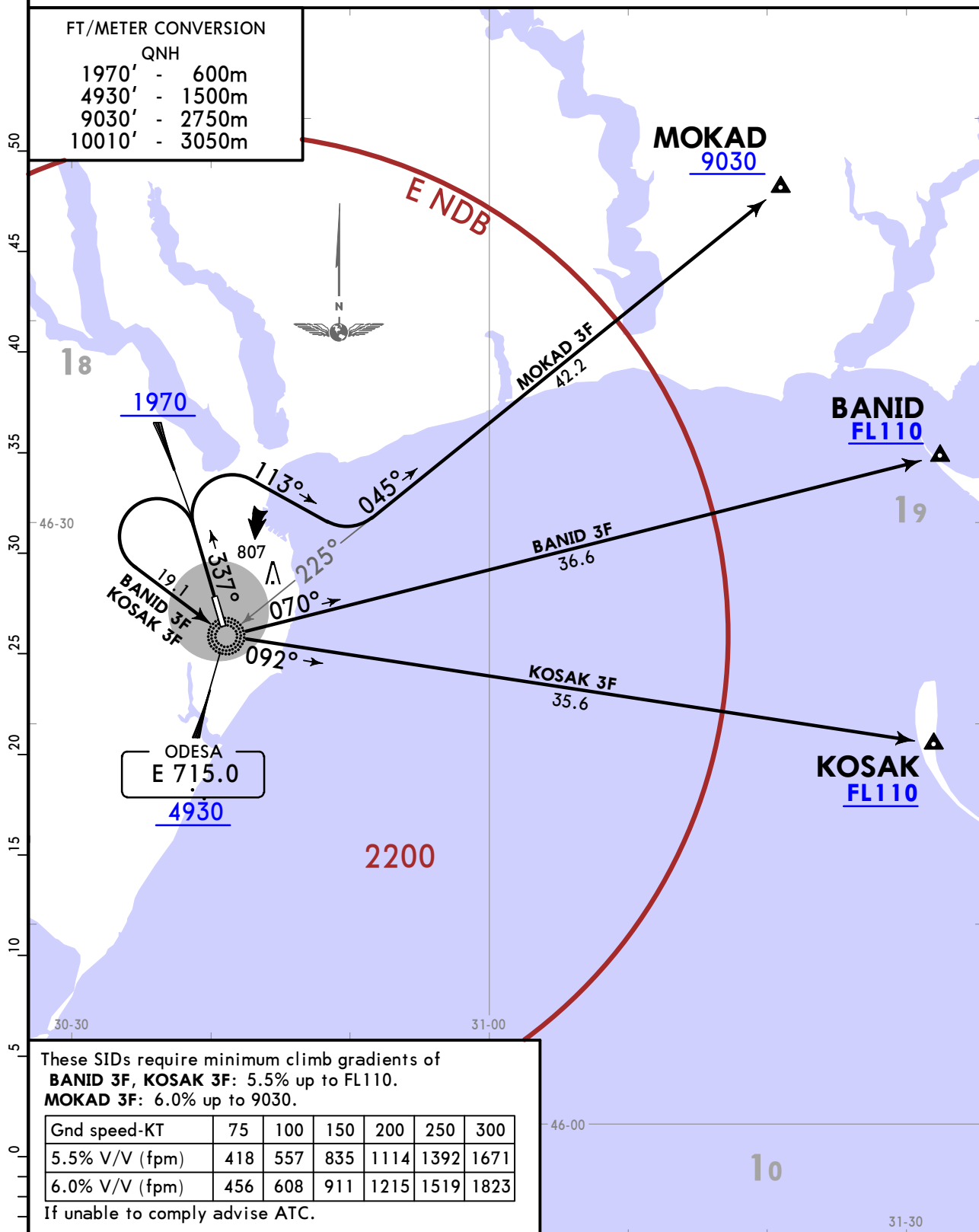
ODESA, UKRAINE
SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

**BANID 3F [BANI3F], KOSAK 3F [KOSA3F]
MOKAD 3F [MOKA3F]
DEPARTURES
(RWY 34)**

FT/METER CONVERSION

FT	METER
1970'	600m
4930'	1500m
9030'	2750m
10010'	3050m



These SIDs require minimum climb gradients of
BANID 3F, KOSAK 3F: 5.5% up to FL110.
MOKAD 3F: 6.0% up to 9030.

Gnd speed-KT	75	100	150	200	250	300
5.5% V/V (fpm)	418	557	835	1114	1392	1671
6.0% V/V (fpm)	456	608	911	1215	1519	1823

If unable to comply advise ATC.

SID	ROUTING
BANID 3F	Climb on 337° track to 1970, turn LEFT to E NDB, turn LEFT, 070° bearing to BANID.
KOSAK 3F	Climb on 337° track to 1970, turn LEFT to E NDB, turn LEFT, 092° bearing to KOSAK.
MOKAD 3F	Climb on 337° track to 1970, turn RIGHT, 113° track, turn LEFT, intercept 045° bearing to MOKAD.

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JEPPESEN
21 FEB 20 (10-3P) Eff 27 Feb

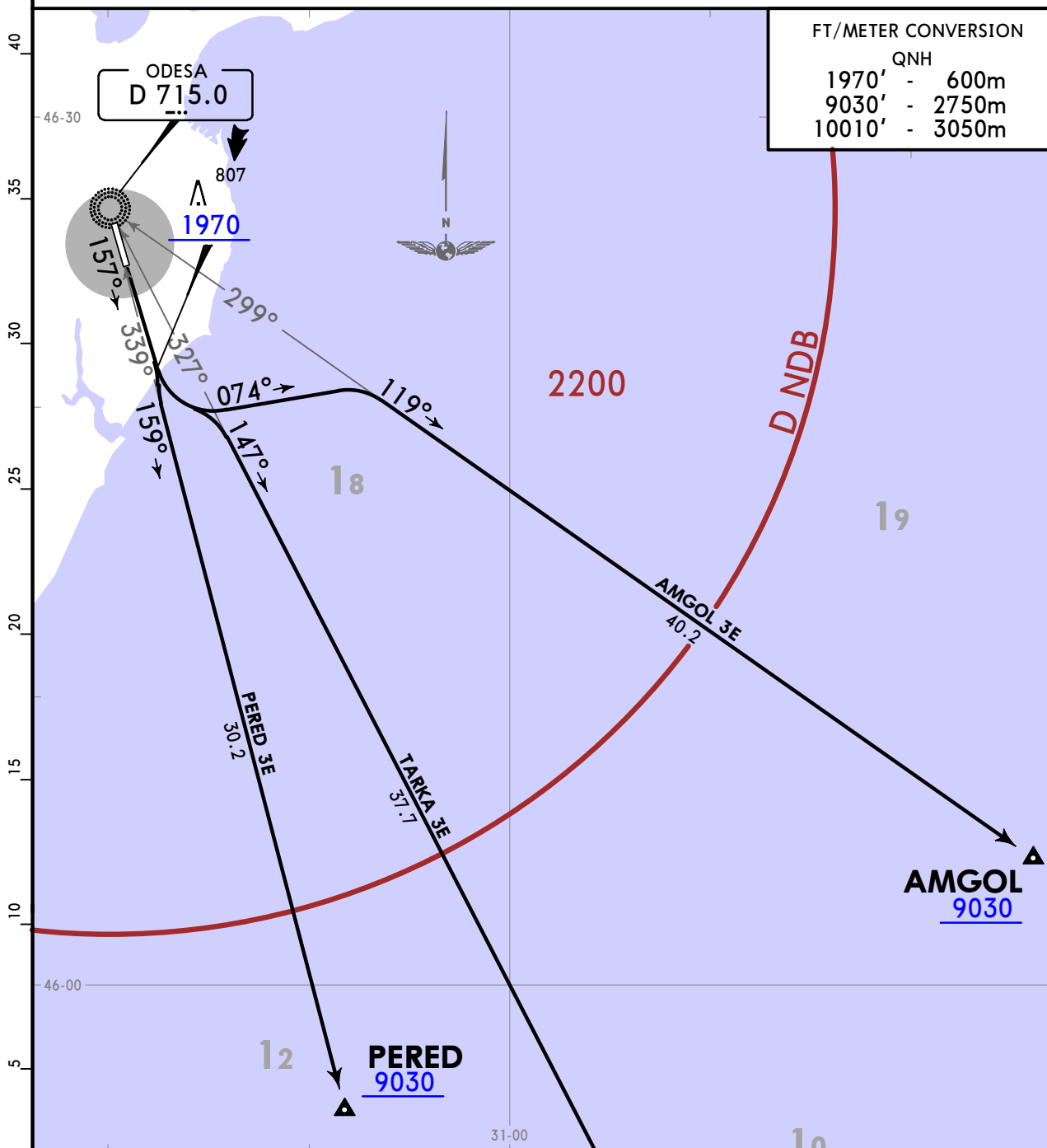
ODESA, UKRAINE
SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

AMGOL 3E [AMGO3E], PERED 3E [PERE3E]
TARKA 3E [TARK3E]
DEPARTURES
(RWY 16)

FT/METER CONVERSION

1970'	-	600m
9030'	-	2750m
10010'	-	3050m



AMGOL 3E
This SID requires a minimum climb gradient of 8.5% up to 9030.

Gnd speed-KT	75	100	150	200	250	300
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

If unable to comply advise ATC.

SID	ROUTING
AMGOL 3E	Climb on 157° track to 1970, turn LEFT, 074° track, turn RIGHT, intercept 119° bearing from D NDB to AMGOL.
PERED 3E	Climb on 157° track to 1970, turn RIGHT, intercept 159° bearing from D NDB to PERED.
TARKA 3E	Climb on 157° track to 1970, turn LEFT, intercept 147° bearing from D NDB to TARKA.

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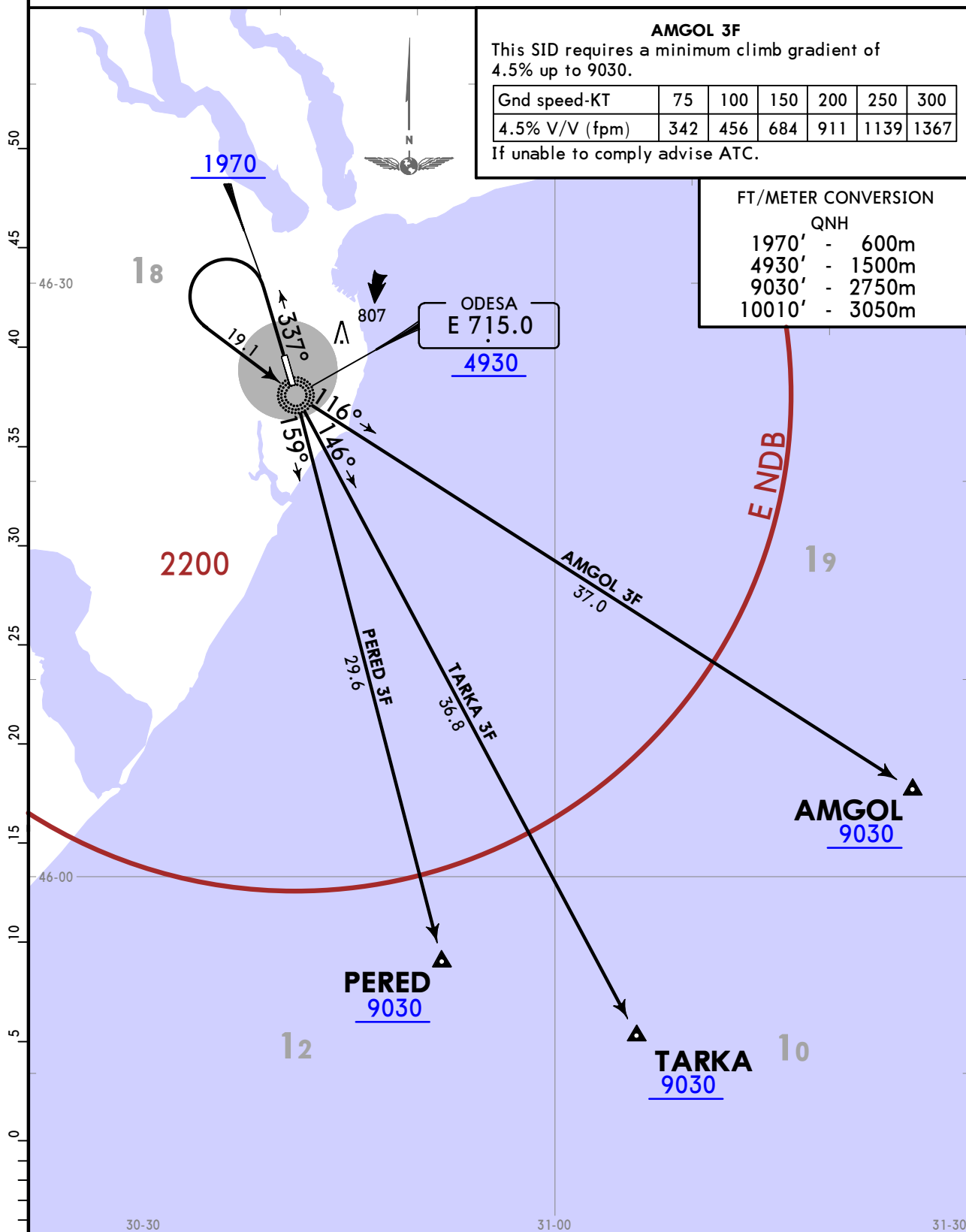
JEPPESEN
21 FEB 20 (10-3Q) Eff 27 Feb

ODESA, UKRAINE

SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

AMGOL 3F [AMGO3F], PERED 3F [PERE3F]
TARKA 3F [TARK3F]
DEPARTURES
(RWY 34)



SID	ROUTING
AMGOL 3F	Climb on 337° track to 1970, turn LEFT to E NDB, turn LEFT, 116° bearing to AMGOL.
PERED 3F	Climb on 337° track to 1970, turn LEFT to E NDB, turn RIGHT, 159° bearing to PERED.
TARKA 3F	Climb on 337° track to 1970, turn LEFT to E NDB, turn RIGHT, 146° bearing to TARKA.

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ODESA

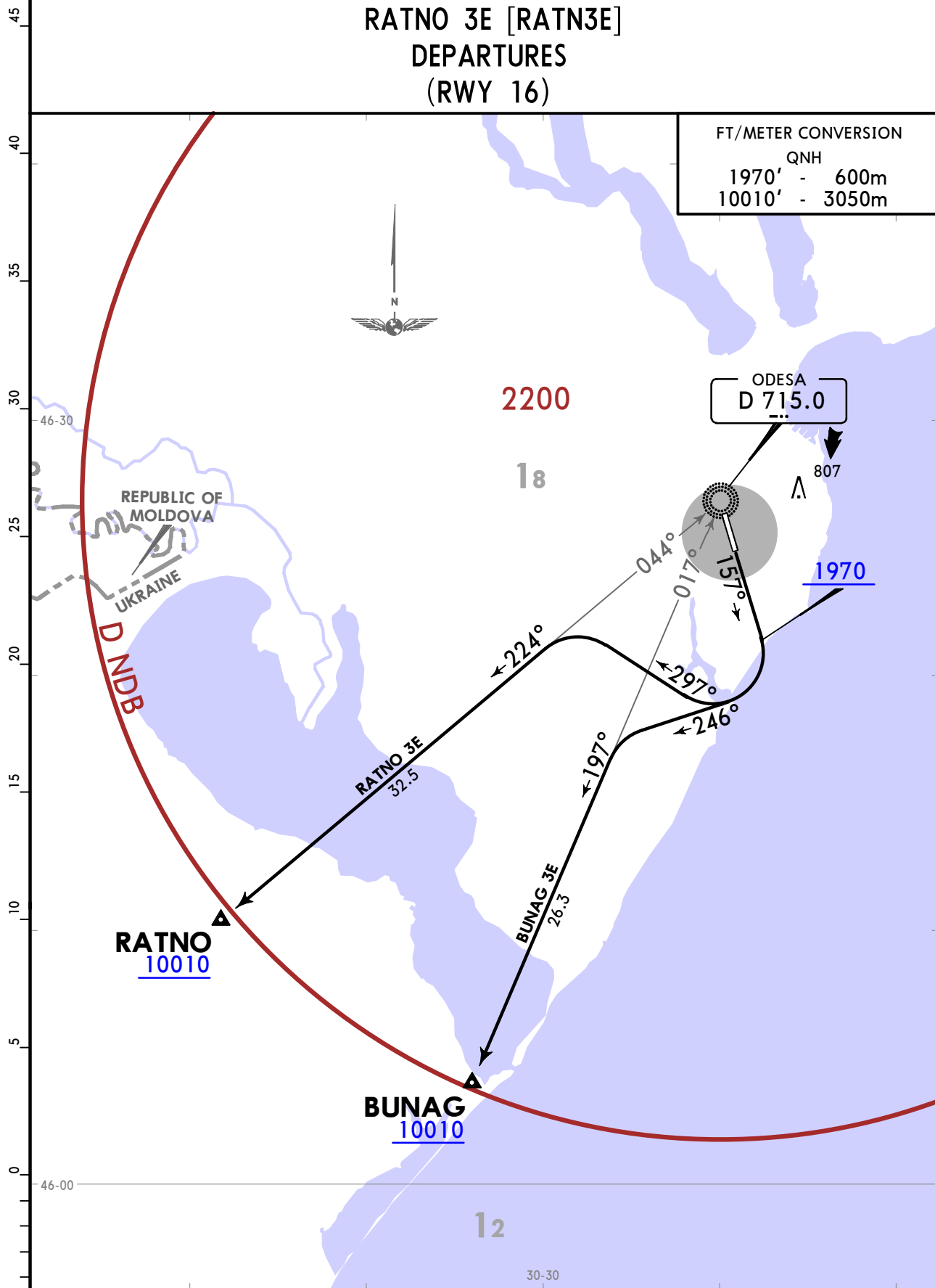
JEPPESEN
15 MAY 20 (10-3S)

ODESA, UKRAINE
SID

Apt Elev 171 Trans alt: 10010
If unable to comply departure procedures advise ATC.

BUNAG 3E [BUNA3E]
RATNO 3E [RATN3E]
DEPARTURES
(RWY 16)

FT/METER CONVERSION
QNH
1970' - 600m
10010' - 3050m



SID	ROUTING
BUNAG 3E	Climb on 157° track to 1970, turn RIGHT, 246° track, turn LEFT, intercept 197° bearing from D NDB to BUNAG.
RATNO 3E	Climb on 157° track to 1970, turn RIGHT, 297° track, turn LEFT, intercept 224° bearing from D NDB to RATNO.

CHANGES: None.

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ODESA

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ODESA, UKRAINE

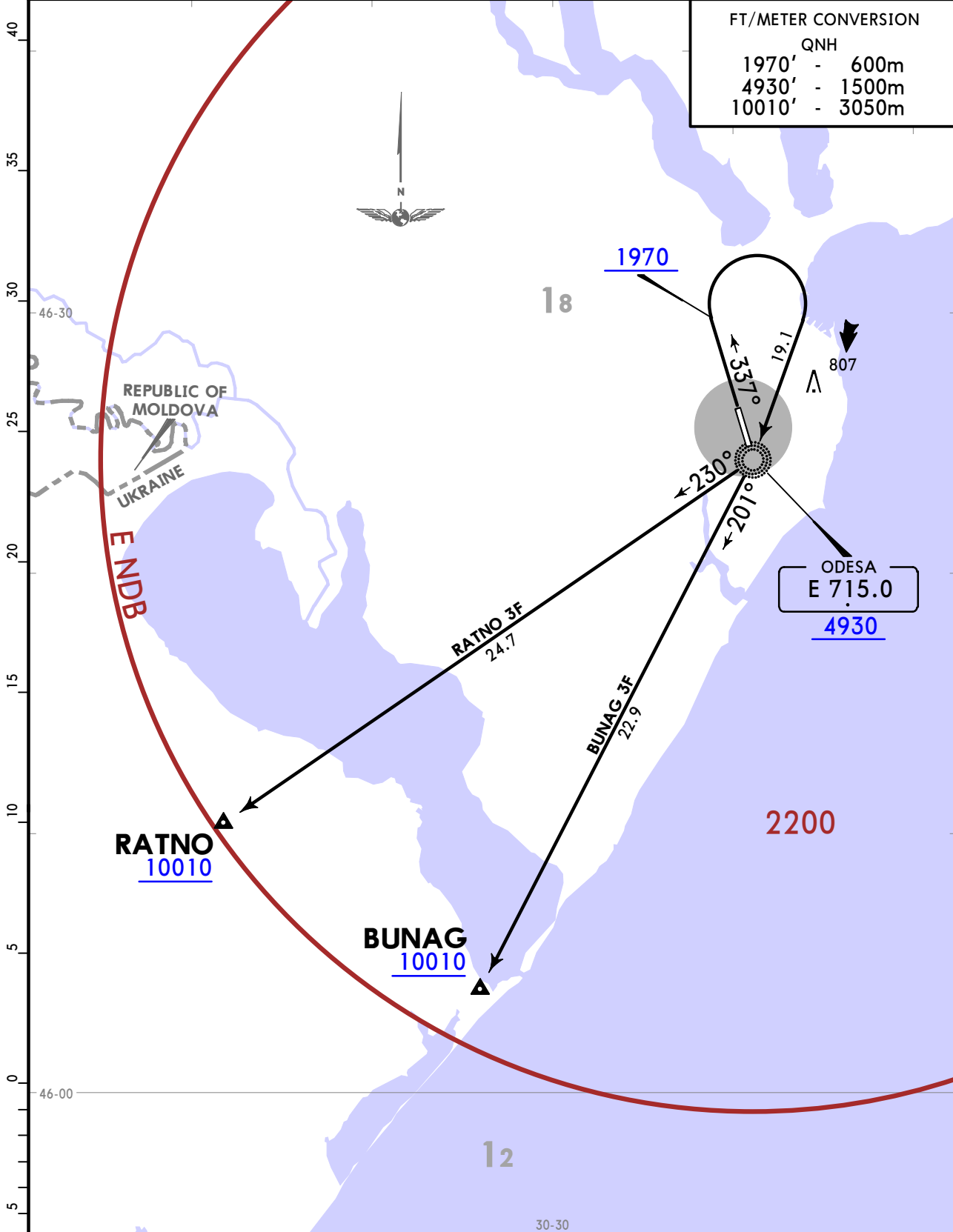
15 MAY 20 **10-3T**

SID

Apt Elev 171	Trans alt: 10010 If unable to comply departure procedures advise ATC.
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**BUNAG 3F [BUNA3F]
RATNO 3F [RATN3F]
DEPARTURES
(RWY 34)**

FT/METER CONVERSION	
1970'	600m
4930'	1500m
10010'	3050m



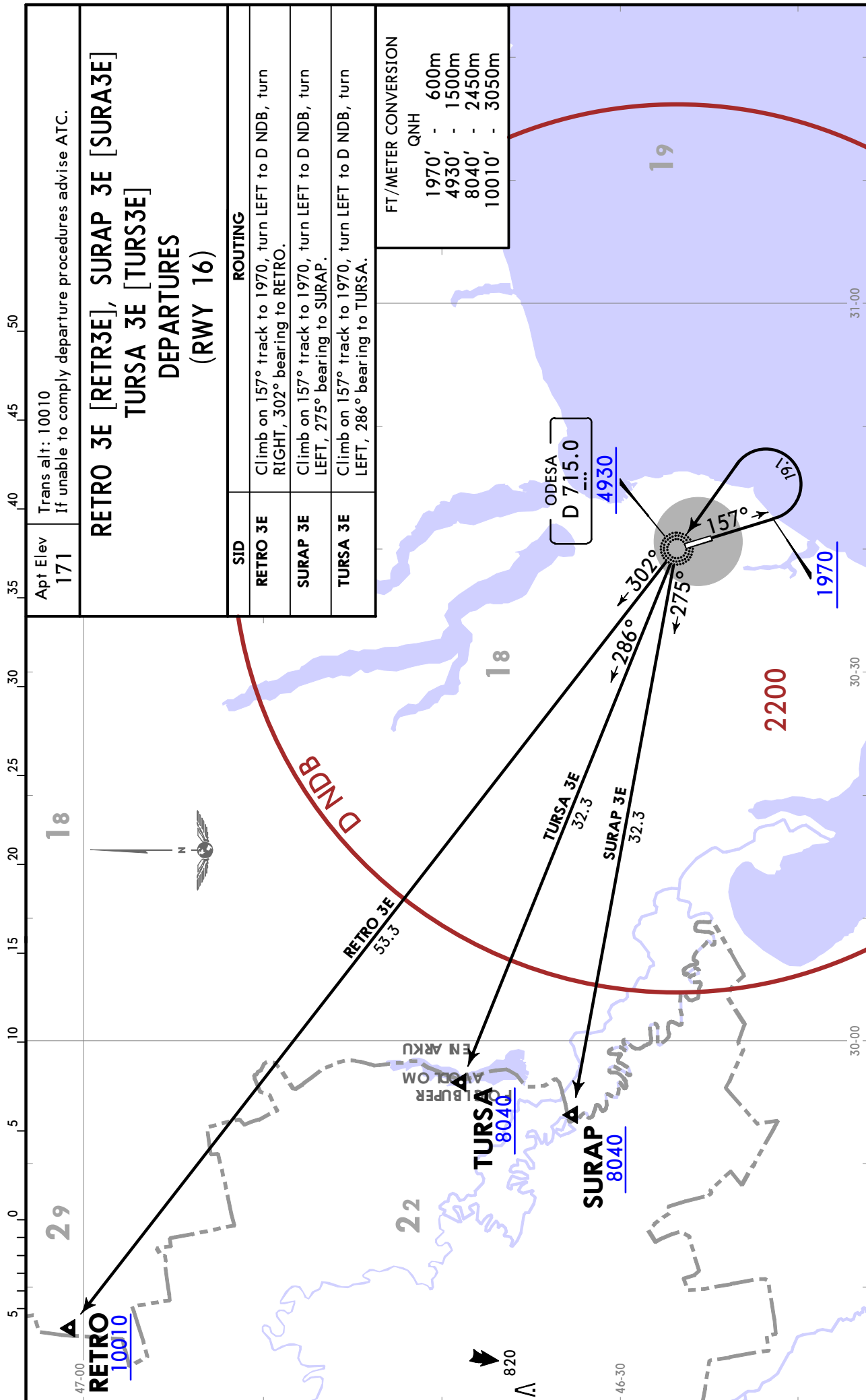
SID	ROUTING
BUNAG 3F	Climb on 337° track to 1970, turn RIGHT to E NDB, turn RIGHT, 201° bearing to BUNAG.
RATNO 3F	Climb on 337° track to 1970, turn RIGHT to E NDB, turn RIGHT, 230° bearing to RATNO.

UK00/ODS
ODESA

JEPPESSEN
21 FEB 20 10-3U Eff 27 Feb

ODESA, UKRAINE

SID



UK00/ODS
ODESA

JEPPESSEN

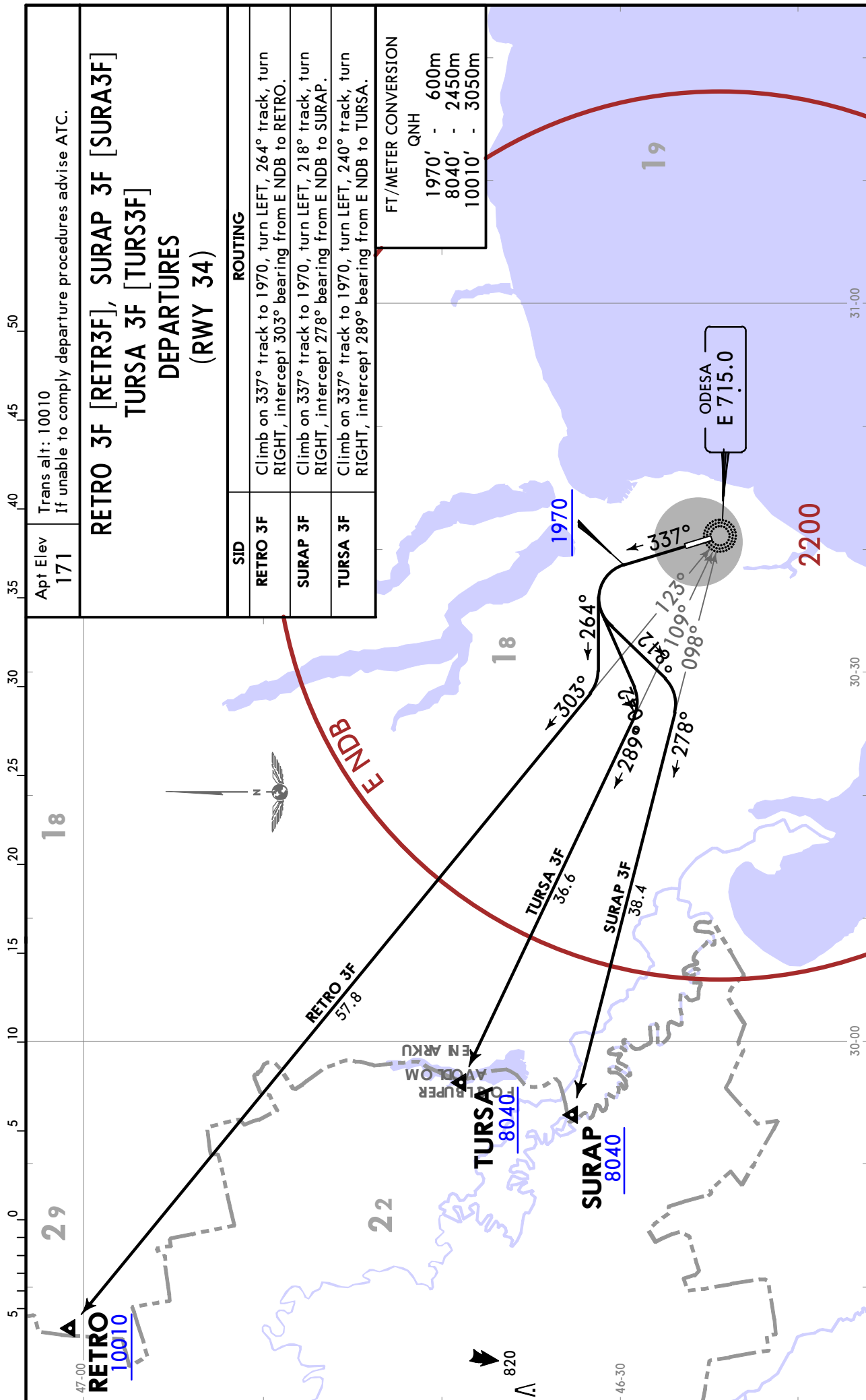
ODESA, UKRAINE

21 FEB 20

10-3V

Eff 27 Feb

SID



UK00/ODS

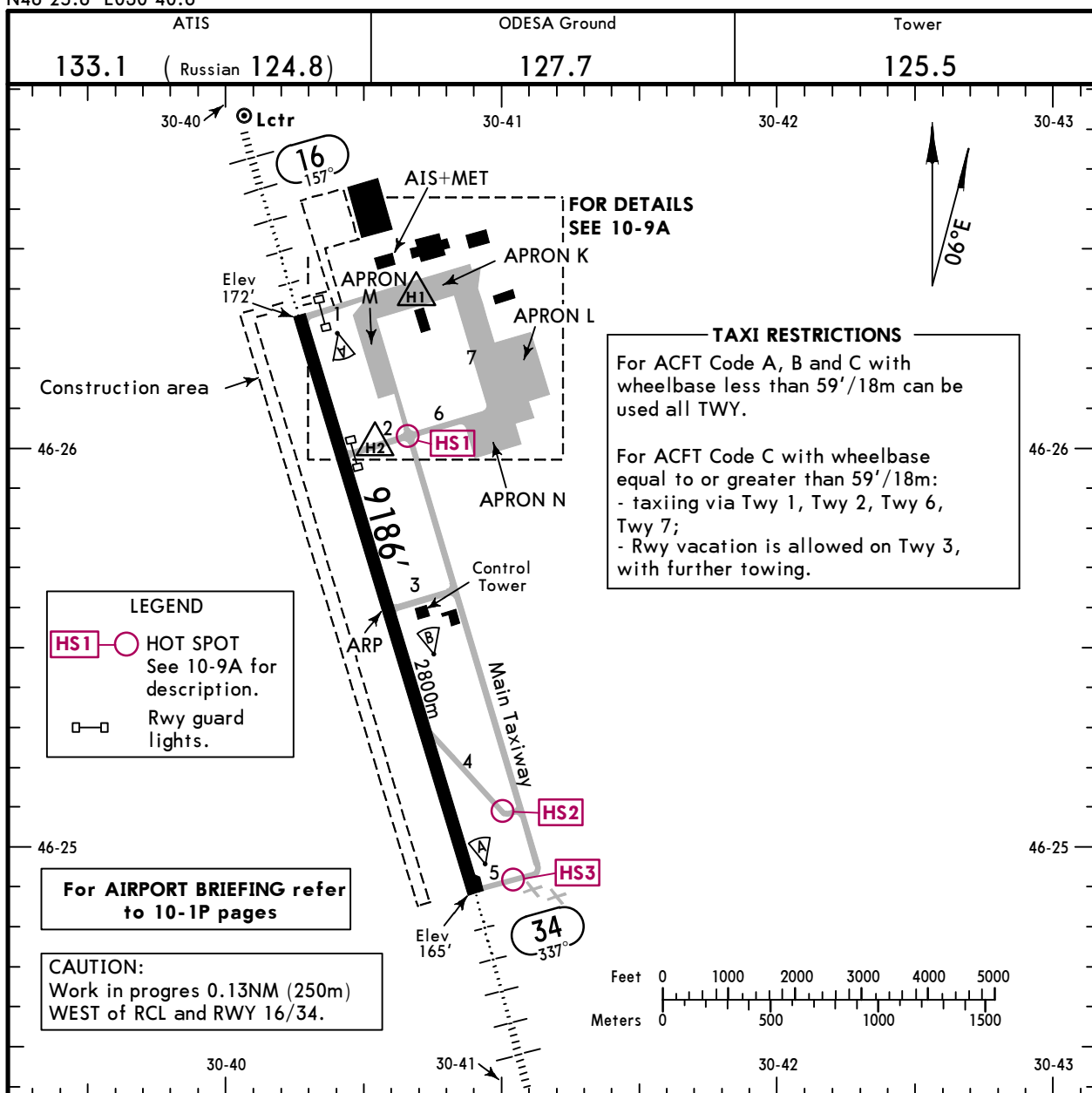
Apt Elev 171'
N46 25.6 E030 40.6



27 NOV 20 (10-9) Eff 3 Dec

ODESA, UKRAINE

ODESA



ADDITIONAL RUNWAY INFORMATION

RWY	LANDING BEYOND	USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Glide Slope		
16 34	HIRL (50m) HIALS PAPI-L (angle 3.00°) RVR		8214' 2504m	①	184' 56m
			8275' 2522m		

① First 33'/10m unusable for take-off.

TAKE-OFF RUN AVAILABLE

Rwy 16:

From rwy head 9153' (2790m)
twy 2 int 7185' (2190m)
twy 3 int 4593' (1400m)

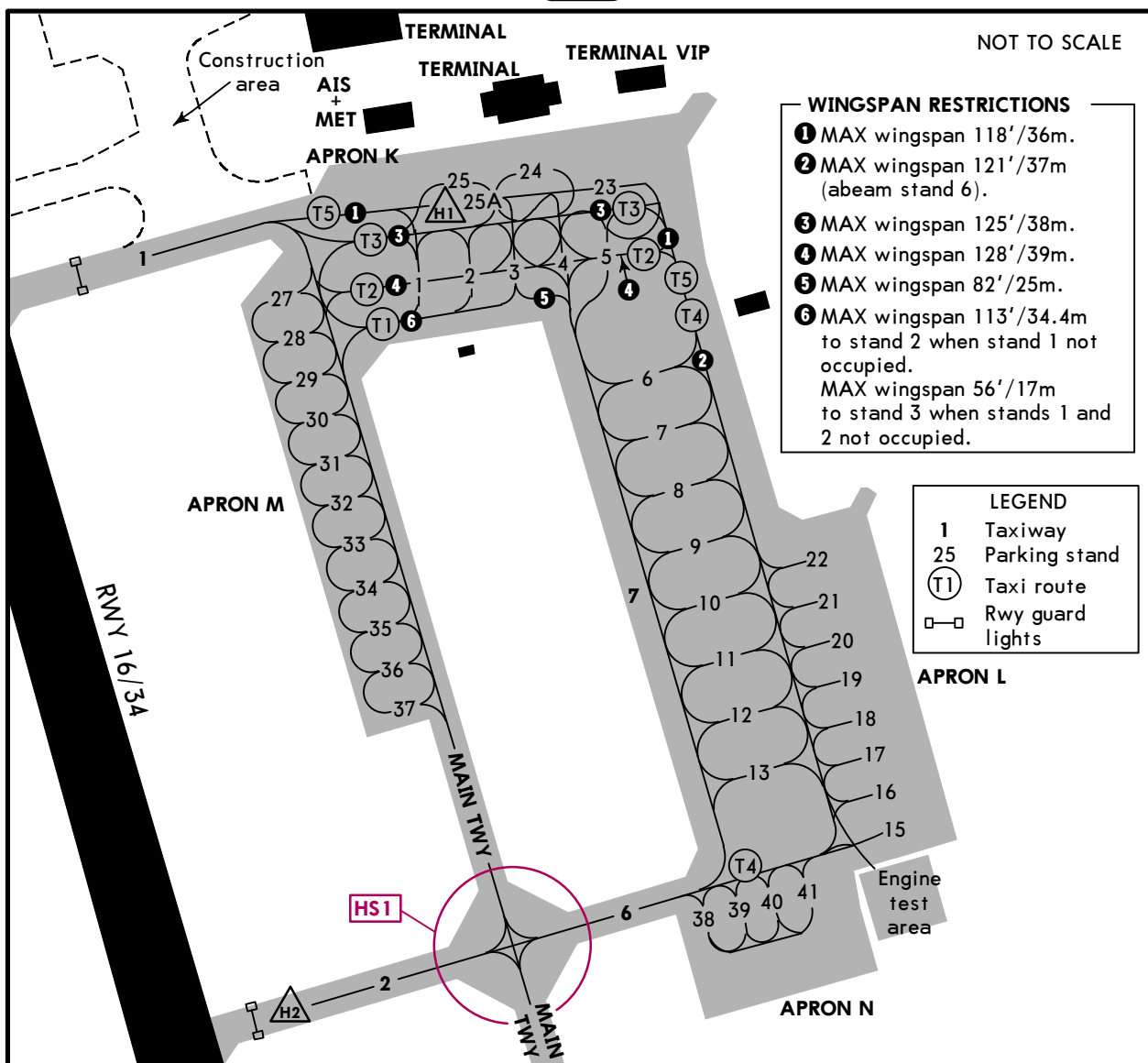
Rwy 34:

From rwy head 9153' (2790m)
twy 4 int 7054' (2150m)
twy 3 int 4593' (1400m)

Standard

TAKE-OFF

	Low Visibility Take-off		Adequate vis ref (Day only)
	Day: RL & RCLM Night: RL	Day: RL or RCLM Night: RL	
A			
B			
C	RVR 300m	400m	500m
D			



HOT SPOTS

(For information only, not to be construed as ATC instructions.)

- HS1** Taxi with caution when crossing Main Twy.
- HS2** Twy 4 holding position not in sight from the Tower.
- HS3** Twy 5 holding position not in sight from the Tower.
Multiple hold position where Twy 5 and military Twy intersect.
Non-typical location for military Twy holding position marking.

TAXI RESTRICTIONS

For ACFT Code A, B and C with wheelbase less than 59'/18m can be used all Twy.
For ACFT Code C with wheelbase equal to or greater than 59'/18m:
- taxiing via Twy 1, Twy 2, Twy 6 and Twy 7;
- Rwy vacation is allowed on Twy 3 with further towing.

UKOO/ODS

ODESA, UKRAINE

ODESA

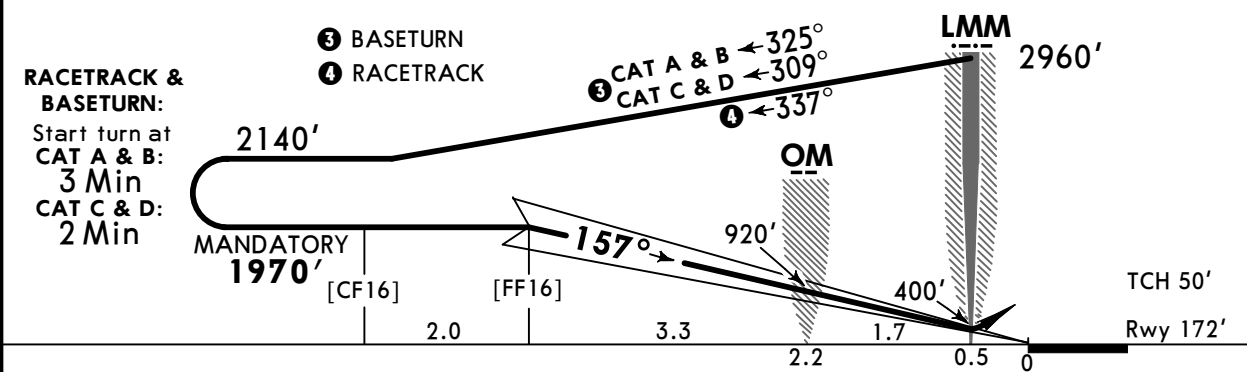
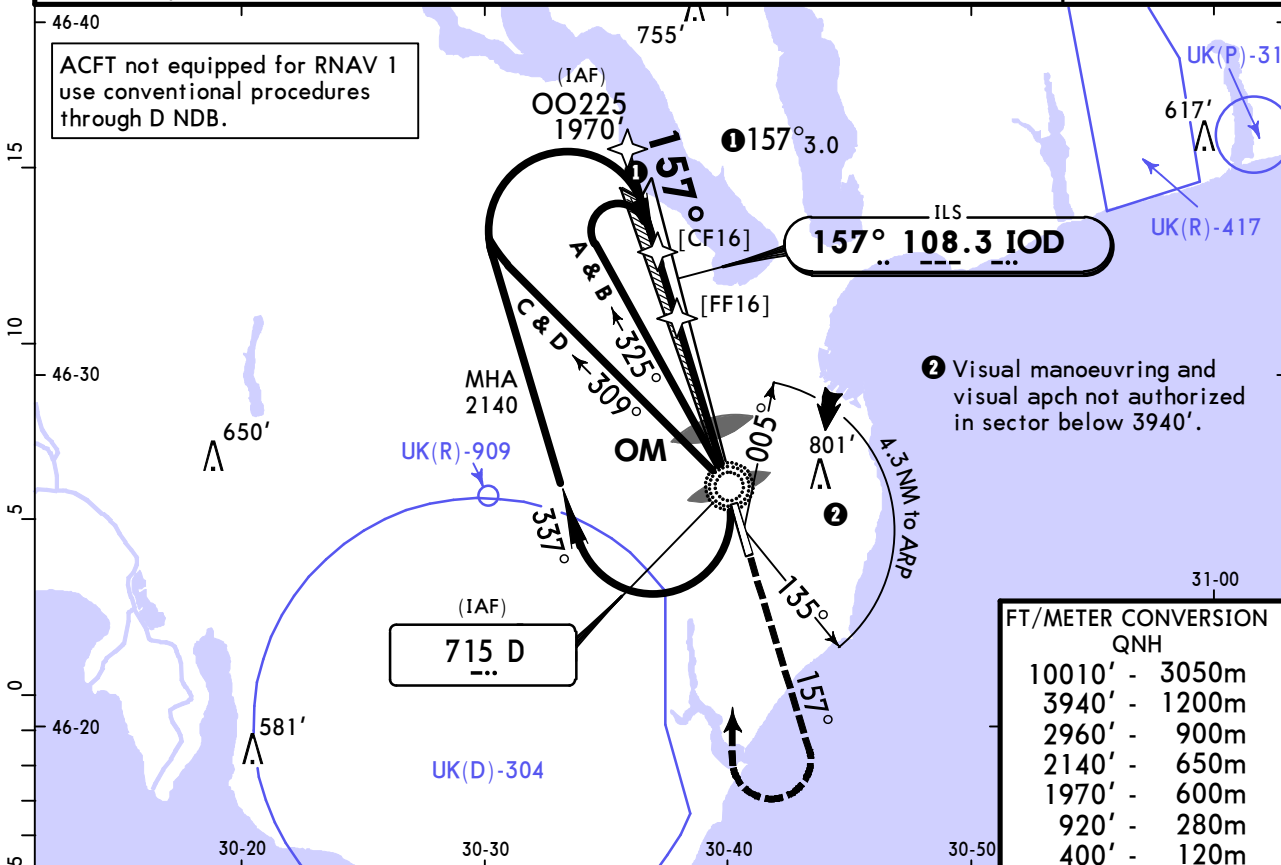
INS COORDINATES			
STAND No.	COORDINATES		CABIN on
Apron K			
1	N46 26.3	E030 40.5	N
1	N46 26.3	E030 40.6	S
2	N46 26.4	E030 40.6	N
2	N46 26.3	E030 40.6	S
3	N46 26.4	E030 40.6	N
3	N46 26.3	E030 40.6	S
4	N46 26.4	E030 40.6	N
4	N46 26.3	E030 40.7	S
5	N46 26.4	E030 40.7	N
5	N46 26.3	E030 40.7	S
23	N46 26.4	E030 40.6	W
24, 25	N46 26.4	E030 40.6	E or W
25A	NIL	NIL	E
Apron L			
6 thru 8	N46 26.3	E030 40.7	E or W
9	N46 26.2	E030 40.8	E
9	N46 26.2	E030 40.7	W
10	N46 26.2	E030 40.7	W
10	N46 26.2	E030 40.8	E
11	N46 26.2	E030 40.8	E
11	N46 26.2	E030 40.7	W
12	N46 26.2	E030 40.8	E or W
13	N46 26.1	E030 40.8	E or W
15, 16	N46 26.1	E030 40.9	E
17	N46 26.2	E030 40.8	W
17	N46 26.2	E030 40.9	E
18	N46 26.2	E030 40.8	E or W
19 thru 22	N46 26.2	E030 40.8	E
Apron M			
27 thru 31	N46 26.3	E030 40.5	E or W
32	N46 26.3	E030 40.5	E
32	N46 26.2	E030 40.5	W
33 thru 35	N46 26.2	E030 40.5	E or W
36	N46 26.2	E030 40.6	E
36	N46 26.2	E030 40.5	W
37	N46 26.2	E030 40.6	E
37	N46 26.2	E030 40.5	W
Apron N			
38	N46 26.1	E030 40.7	N
38	N46 26.0	E030 40.8	S
39	N46 26.1	E030 40.8	N
39	N46 26.0	E030 40.8	S
40, 41	N46 26.1	E030 40.8	N or S

UK00/ODS ODESA

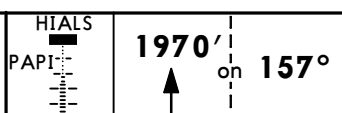
JEPPESSEN
25 DEC 20 **11-1** Eff 31 Dec

ODESA, UKRAINE ILS Rwy 16

ATIS 133.1 (Russian 124.8)		ODESA Radar (APP) 120.9	ODESA Tower 125.5	Ground 127.7	<p>2200 MSA D NDB</p>
LOC IOD 108.3	Final Apch Crs 157°	No FAF	DA(H) 372' (200')	Apt Elev 171' Rwy 172'	
MISSED APCH: Climb on 157° to 1970', then turn RIGHT to D NDB climbing 2960', then according to chart.					
Alt Set: hPa (MM on req) Rwy Elev: 6 hPa Trans level: By ATC Trans alt: 10010'					
RNAV 1 required for OO225.					



Gnd speed-Kts	70	90	100	120	140	160
GS	3.00°	372	478	531	637	849



PANS OPS	Standard STRAIGHT-IN LANDING RWY 16		CIRCLE-TO-LAND		
	ILS DA(H) 372' (200')				
	FULL		ALS out		
	A	RVR 550m 1	RVR 1200m	Max Kts	
B			100		
C			135		
D			180		
			205		
			MDA(H)		
			100	780' (609')	1500m
			135	810' (639')	1600m
			180	1200' (1029')	2400m
			205	1200' (1029')	3600m

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

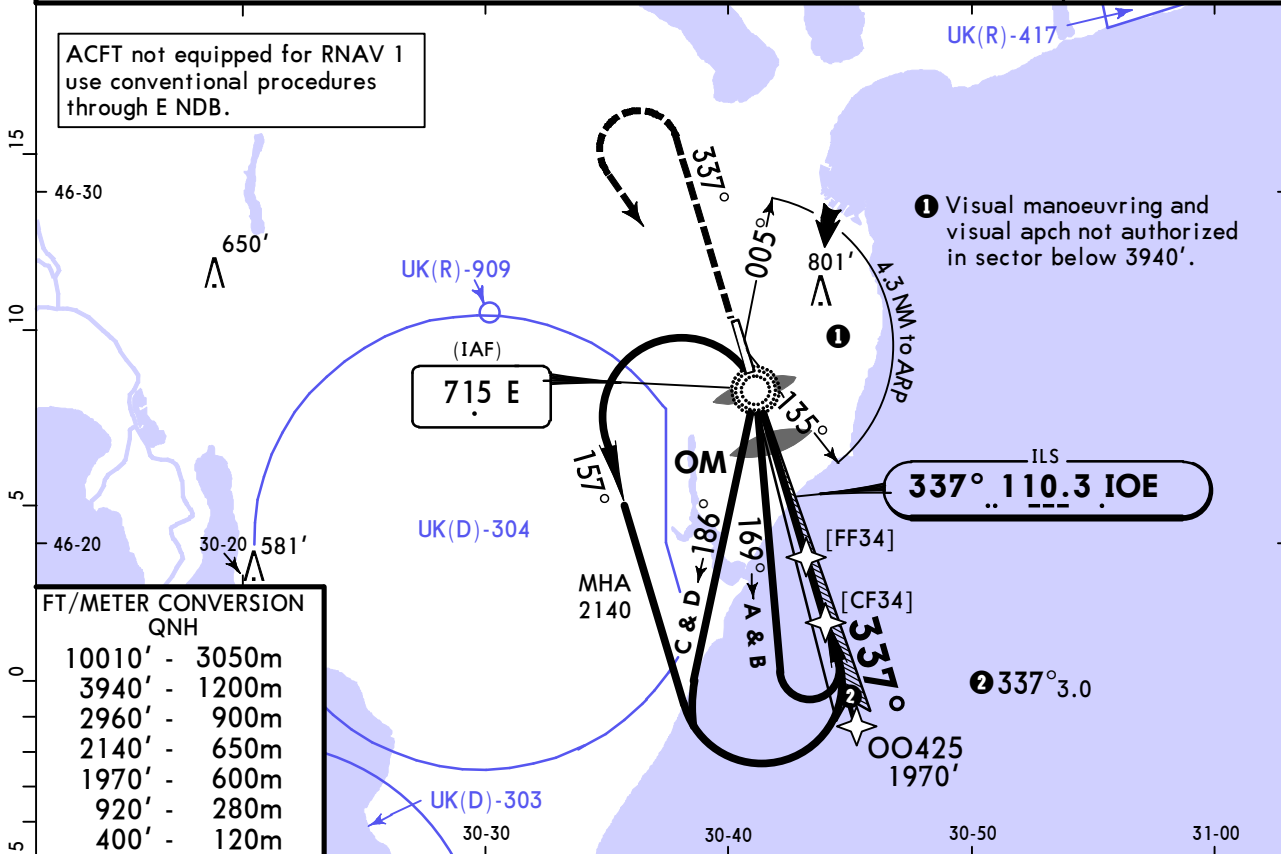
UK00/ODS ODESA

JEPPESSEN
25 DEC 20 **11-2** Eff 31 Dec

ODESA, UKRAINE ILS Rwy 34

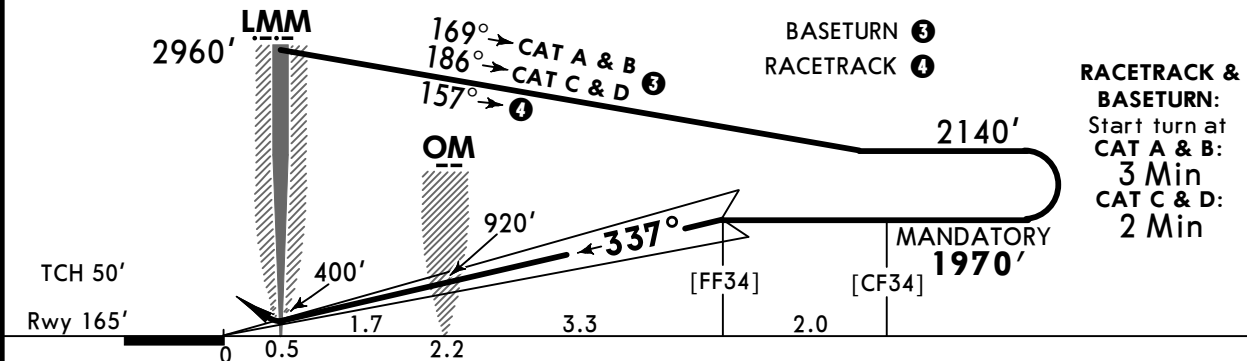
ATIS 133.1 (Russian 124.8)		ODESA Radar (APP) 120.9		ODESA Tower 125.5		Ground 127.7	
LOC IOE 110.3	Final Apch Crs 337°	No FAF		DA(H) 365' (200')	Apt Elev 171' Rwy 165'		2200 MSA E NDB
MISSED APCH: Climb on 337° to 1970', then turn LEFT to E NDB climbing 2960', then according to chart.							
Alt Set: hPa (MM on req) Rwy Elev: 6 hPa Trans level: By ATC Trans alt: 10010'							
RNAV 1 required for OO425.							

ACFT not equipped for RNAV 1 use conventional procedures through E NDB.

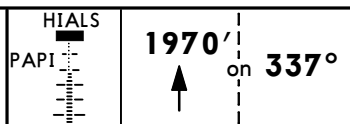


FT/METER CONVERSION
QNH

10010'	3050m
3940'	1200m
2960'	900m
2140'	650m
1970'	600m
920'	280m
400'	120m



Gnd speed-Kts	70	90	100	120	140	160	
GS	3.00°	372	478	531	637	743	849



Standard		STRAIGHT-IN LANDING RWY 34		CIRCLE-TO-LAND	
ILS					
DA(H) 365' (200')					
FULL			ALS out		
A					Maxi Kts
B					MDA(H)
C	RVR 550m 1		RVR 1200m		VIS
D					
					100 780' (609')
					135 810' (639')
					180 1200' (1029')
					205 1200' (1029')

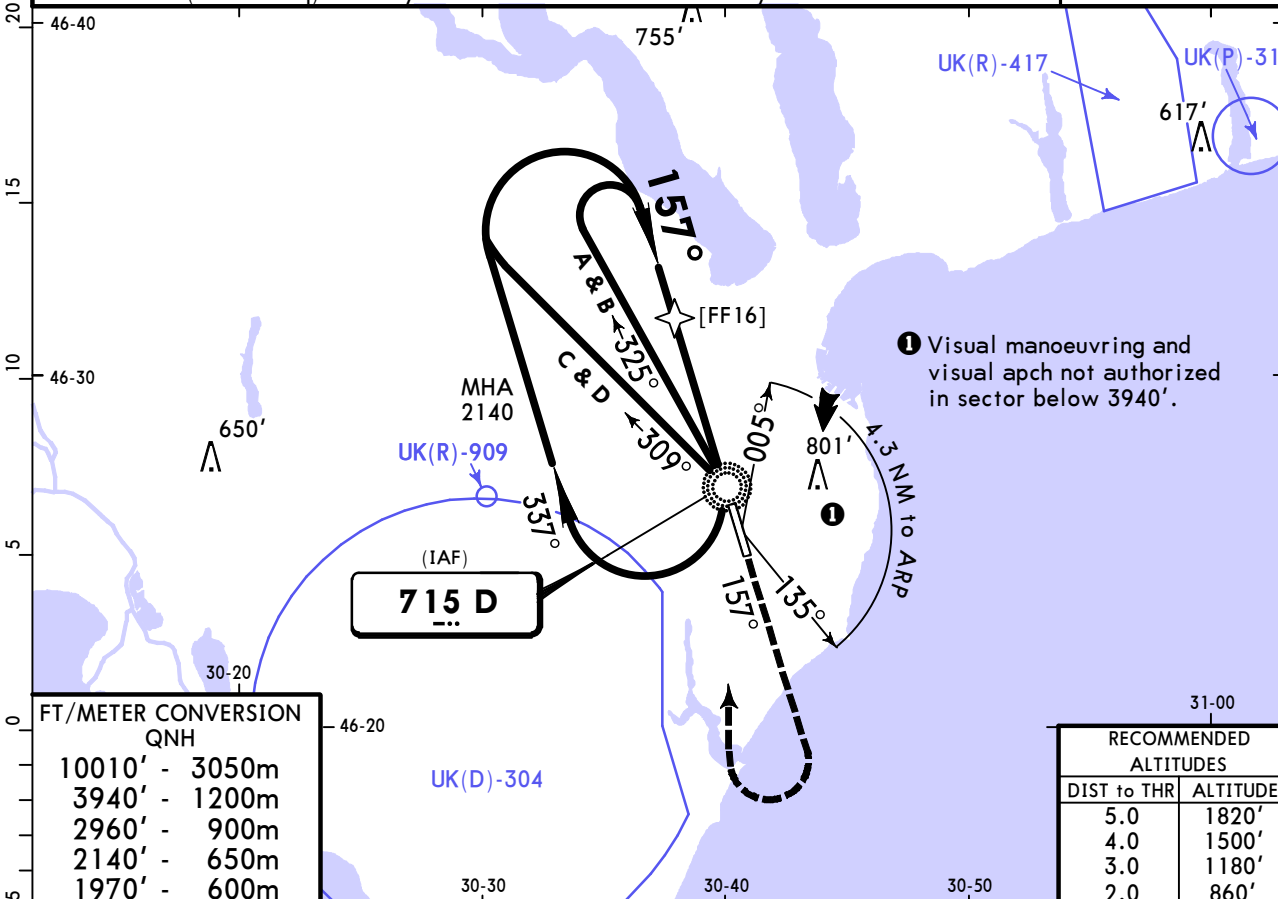
1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

UK00/ODS
ODESA

JEPPESSEN
25 DEC 20 **(16-1)** Eff 31 Dec

ODESA, UKRAINE
NDB Rwy 16

BRIEFING STRIP™	ATIS	ODESA Radar (APP)	ODESA Tower	Ground	2200
	133.1 (Russian 124.8)	120.9	125.5	127.7	
	NDB D 715	Final Apch Crs 157°	No FAF	DA/MDA(H) 690' (518')	
MISSED APCH: Climb on 157° to 1970', then turn RIGHT to D NDB climbing 2960', then according to chart.					MSA D NDB
Alt Set: hPa (MM on req) Rwy Elev: 6 hPa Trans level: By ATC Trans alt: 10010'					

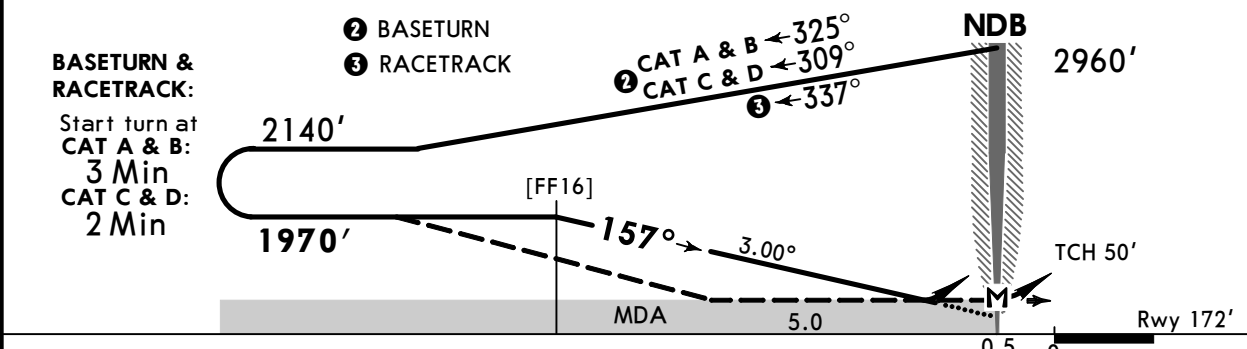


FT/METER CONVERSION
QNH

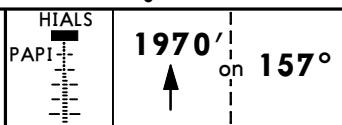
10010'	3050m
3940'	1200m
2960'	900m
2140'	650m
1970'	600m

RECOMMENDED ALTITUDES

DIST to THR	ALTITUDE
5.0	1820'
4.0	1500'
3.0	1180'
2.0	860'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00°	372	478	531	637	743	849
MAP at NDB						



PANS OPS	STRAIGHT-IN LANDING RWY 16				CIRCLE-TO-LAND	
	CDFA		non-CDFA		Max Kts	MDA(H) VIS
	DA/MDA(H) 690' (518')		MDA(H) 690' (518')			
	ALS out		ALS out			
A	RVR 1500m		RVR 1800m	RVR 2600m	100	780' (609') I 1500m
B	RVR 1500m		RVR 1800m	RVR 2600m	135	810' (639') I 1600m
C	RVR 1600m	RVR 2400m	RVR 2000m	RVR 2800m	180	1200' (1029') I 2400m
D	RVR 1600m	RVR 2400m	RVR 2000m	RVR 2800m	205	1200' (1029') 3600m

I or higher straight-in minimums

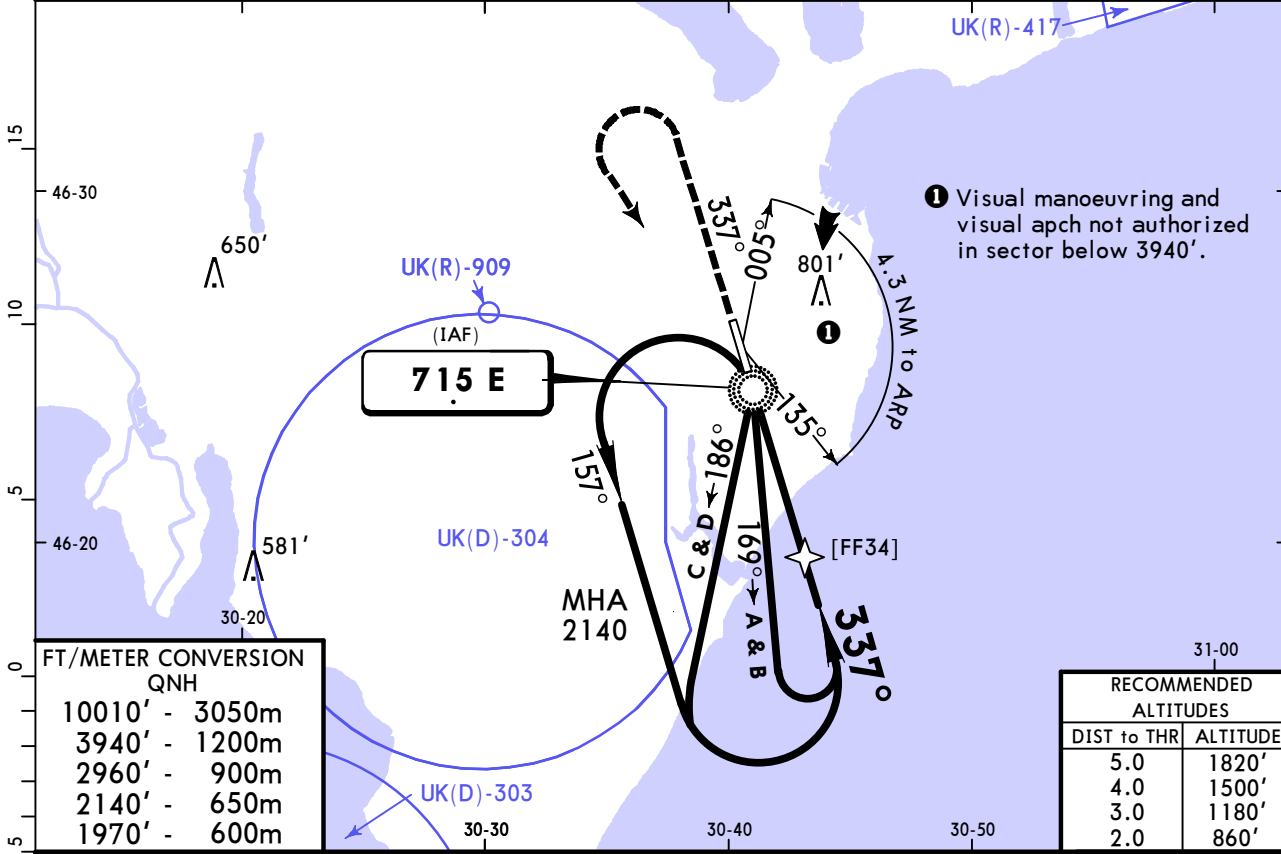
CHANGES: UK(R)-909 added.

UK00/ODS ODESA

JEPPESSEN
25 DEC 20 **(16-2)** Eff 31 Dec

ODESA, UKRAINE NDB Rwy 34

ATIS 133.1 (Russian 124.8)		ODESA Radar (APP) 120.9	ODESA Tower 125.5	Ground 127.7
NDB E 715	Final Apch Crs 337°	No FAF	DA/MDA(H) 740' (575')	Apt Elev 171' Rwy 165'
MISSED APCH: Climb on 337° to 1970', then turn LEFT to E NDB climbing 2960', then according to chart.				
Alt Set: hPa (MM on req) Rwy Elev: 6 hPa Trans level: By ATC Trans alt: 10010'				

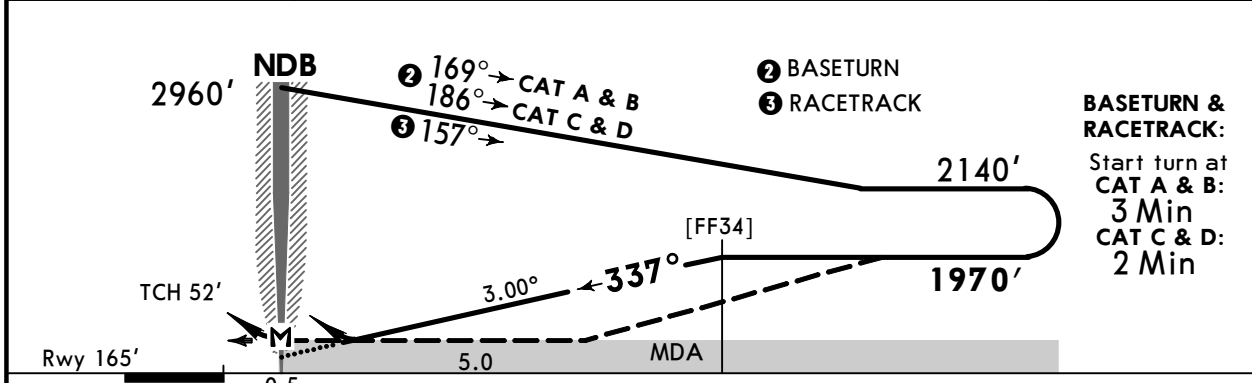


FT/METER CONVERSION
QNH

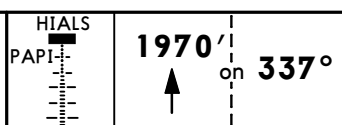
10010'	3050m
3940'	1200m
2960'	900m
2140'	650m
1970'	600m

RECOMMENDED ALTITUDES

DIST to THR	ALTITUDE
5.0	1820'
4.0	1500'
3.0	1180'
2.0	860'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00°	372	478	531	637	743	849
MAP at NDB						



PANS OPS	STRAIGHT-IN LANDING RWY 34				CIRCLE-TO-LAND	
	CDFA DA/MDA(H) 740' (575')		non-CDFA MDA(H) 740' (575')		Max Kts	MDA(H) VIS
A	ALS out		ALS out		100	780' (609') I 1500m
B	RVR 1500m		RVR 2100m	RVR 2800m	135	810' (639') I 1600m
C	RVR 1900m	RVR 2400m	RVR 2300m	RVR 3000m	180	1200' (1029') I 2400m
D					205	1200' (1029') 3600m

I or higher straight-in minimums

Chart changes since cycle 01-2021

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
ODESA, (ODESA - UKOO)				
REV	ILS RWY 16	11-1	22 Jan 2021	28 Jan 2021
REV	ILS RWY 34	11-2	22 Jan 2021	28 Jan 2021

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UKOO