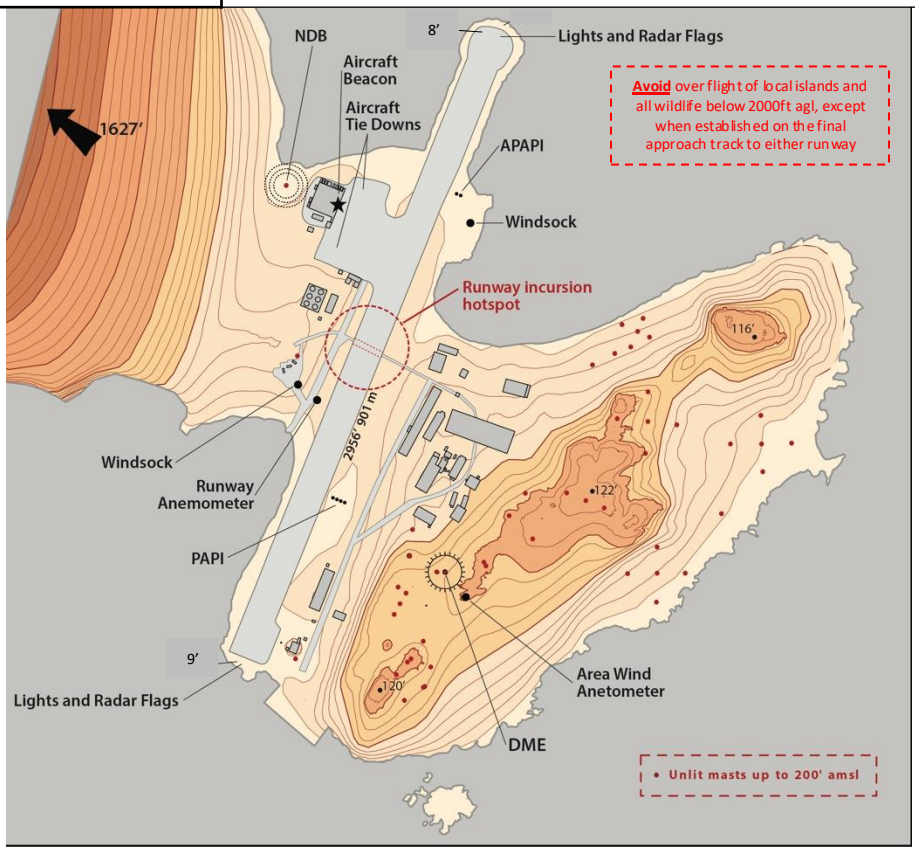
MSA 30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	**Airfield layout**

Aerodrome Reference Point: S67 34.06 W068 07.63
Rothera Radio: VHF 118.1 HF 5080, 7775, 9106
Phone: +44 1223 221670 Iridium +881 621 463 301
Operating hours: 1100z to 0000z Mon-Sat Oct-Feb. Other times by arrangement, all operations by strict prior permission.
For current Rothera chart status and Visiting aircraft information consult
https://www.bas.ac.uk/polar-operations/polar-science-facilities/aircraft/pilots/



RWY 18	HIREL, REIL, APAPI (4 deg)	LDA 2956 feet TORA 2956 feet	Elevation 8’	Gravel
RWY 36	HIREL, REIL, PAPI (3 deg)	LDA 2956 feet TORA 2956 feet	Elevation 9’	Gravel
RWY 18/36 MIRL edge lighting is available - requires 1 Hour notice to deploy				

Co-ordinates:
Rwy 18 Threshold **S67 33.83 W068 07.40**
Rwy 36 Threshold **S67 34.27 W068 07.85**

Takeoff

Rwy 36: 1100 feet Cloud Ceiling and Visibility 3000m

Rwy 18: 1500 feet Cloud Ceiling and Visibility 5000m

MSA 30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR Warnings, notes and Special Procedures
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	

Aerodrome Reference Point: S67 34.06 W068 07.63
Rothera Radio: VHF 118.1 HF 5080, 7775, 9106
Phone: +44 1223 221670 Iridium +881 621 463 301

For current Rothera chart status and Visiting aircraft information consult
https://www.bas.ac.uk/polar-operations/polar-science-facilities/aircraft/pilots/

Warnings:

1. Weather balloons, rockets and RPAS activity; contact Rothera Operations and consult the latest NOTAMs published on the AIS NOTAM system.
2. Rothera runway is **NOT** available during BAS DASH 7 Point of Safe Return (PSR) Operations. Aircraft captains must contact Rothera Operations by phone before departure on the day of intended flight for details.
3. Possible icebergs up to 300 feet on the approach to both runways.
4. Severe turbulence and windshear on short finals to RWY36 & 18 associated with easterly winds greater than 10 kts.
5. Bird hazard in the vicinity of Rothera airfield November to April.
6. Occasional ships moored at the wharf to the East of RWY36 threshold. Ships moored at the Rothera wharf may necessitate runway closure, contact Rothera Operations.
7. Steeply rising ground to the West, circuits to the East only, circuit height 1200 feet.
8. Multiple aerial arrays to the east of the runway up to 200 feet amsl.
9. RWY18 4 deg APAPI approach angle does not assure terrain separation for approaching aircraft when West of Runway centreline.

Notes:

1. Fuel: JET A1 available by prior permission only.
2. Runway marked with 205 lt drums and end flags.
3. Snow banks likely up to 3m September to January contact Rothera Operations.
4. Portable runway lights (MIRL) require 60 minutes notice to deploy.
5. Inbound aircraft to call at 4nm final.

Special Operational Procedures:
BAS DASH 7 Point of Safe Return (PSR) Procedures. (NOT applicable to Rothera Skiway)

BAS procedures require a sterile runway at Rothera for all periods where the BAS DASH 7 has passed PSR until it has landed. Aircraft will NOT be allowed to take-off or land during this period. It is mandatory for inbound visiting aircraft captains to contact Rothera Operations before takeoff. It is the sole responsibility of the aircraft captain to establish the airfield status, gain final authorisation and ensure the flight is planned to avoid times where the airfield is unavailable. If a captain becomes aware the ETA may conflict with a planned DASH 7 PSR period, or other restriction, they must inform Rothera Ops as soon as possible. Failure to adhere to these requirements may result in refusal to use the airfield and the aircraft will be directed to divert or return to the point of departure. This requirement does **NOT** affect aircraft able to use the skiway when conditions are suitable for its use.

Contact Information

Rothera Operations Voip		+44-1223-221-670	
Rothera Operations Voip Aircraft Safety Calls **ONLY**		+881 677 135 966	
Rothera Operations Iridium		+881-621-463-301	rops@bas.ac.uk
Forecaster (12z to 21z)		+44-1223-221-680	rforecaster@bas.ac.uk
Field Ops Manager (FOM)		+44-1223-221-673	rfom@bas.ac.uk
Rothera Station Leader	+44-1223-221-672 or	+44-1223-221-674	rsl@bas.ac.uk
Cambridge Ops Manager	+44-1223-221-527 or	+44-7872-176-162	chrdri@bas.ac.uk
Emergency (out of hours only)	+44-1223-221-688 or	+44-1223-221-696	

BAS Web site (Air Unit home page) For NOTAMs and Weather information:
https://www.bas.ac.uk/polar-operations/polar-science-facilities/aircraft/pilots/

MSA 30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	Approach & SID COORDINATES

PROCEDURES NOT FLIGHT CHECKED

Aerodrome Reference Point: S67 34.06 W068 07.63
Rothera Radio: VHF 118.1 HF 5080, 7775, 9106
Phone: +44 1223 221670 Iridium +881 621 463 301

For current Rothera chart status and Visiting aircraft information consult
https://www.bas.ac.uk/polar-operations/polar-science-facilities/aircraft/pilots/

RWY18 RNAV1 SID

ROT04	S67°37.98 W068°11.66
ROT05	S67°39.32 W068°02.64
R0210	S67°26.72 W067°50.58
ROT26	S67°11.33 W067°36.20
IPASS	S66°58.59 W067°24.51
G1	S66°00.00 W068°34.12
6666	S66°00.00 W068°34.00

RWY36 RNAV1 SID

R0210	S67°26.72 W067°50.58
ROT26	S67°11.33 W067°36.20
IPASS	S66°58.59 W067°24.51
G1	S66°00.00 W068°34.12
6666	S66°00.00 W068°34.00

RNAV RWY36

RIAF	S67°51.07 W068°24.85
RIF	S67°46.40 W068°20.12
RFAF	S67°43.13 W068°16.80
RMAPt	S67°35.67 W068°09.26
RMATF	S67°37.45 W067°57.02
REAST	S67°48.18 W068°07.78
R36T	S67°34.27 W068°07.85

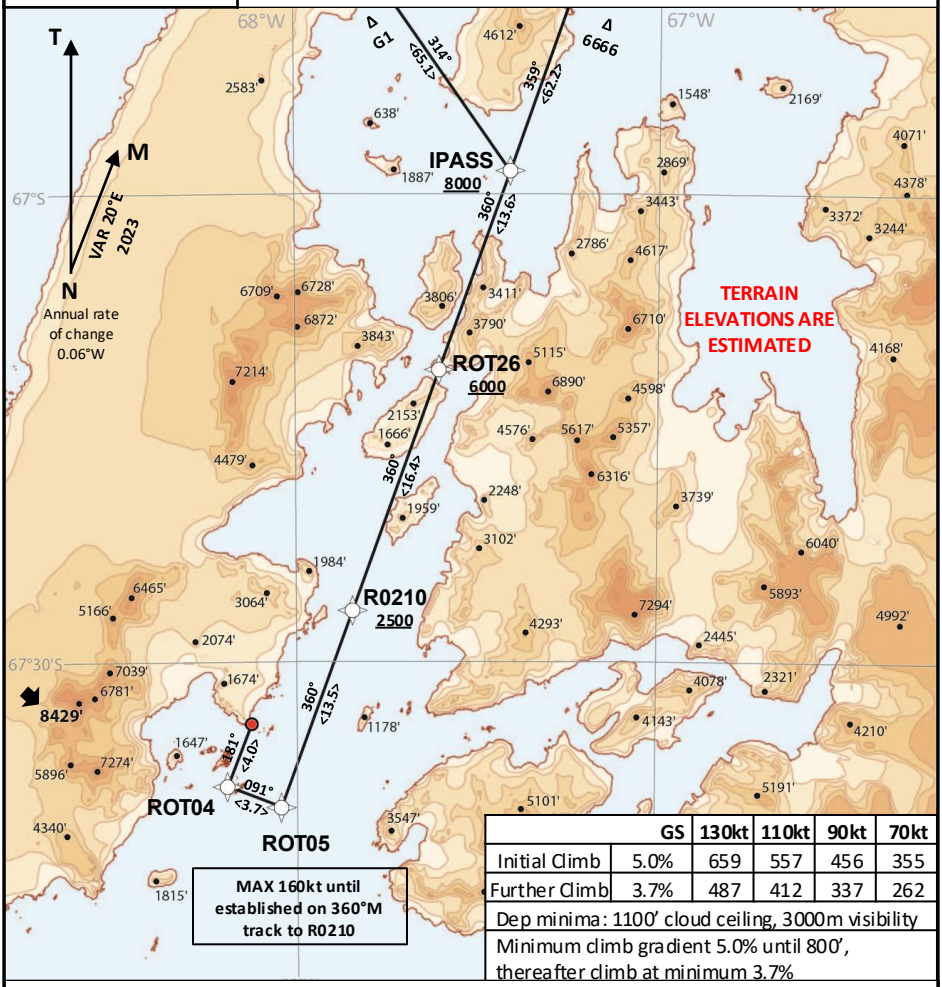
NDB/DME RWY36

R36T	S67°34.27 W068°07.85

MSA	30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR
11000 NDB(L) ROT		118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	RWY 18 RNAV1 SID

PROCEDURE NOT FLIGHT CHECKED

Departure Procedure: Climb on runway heading to 800’ turn left at ROT04 and left at ROT05 to intercept 360°M track to R0210 climbing to be at or above 2500’ by R0210. At R0210 continue to track 360°M to IPASS climbing to be at or above 6000’ by ROT26 and at or above by 8000’ by IPASS. From IPASS track direct to either G1 or 6666, continuing climb to be at or above 11000’.



	GS	130kt	110kt	90kt	70kt
Initial Climb	5.0%	659	557	456	355
Further Climb	3.7%	487	412	337	262

Dep minima: 1100’ cloud ceiling, 3000m visibility

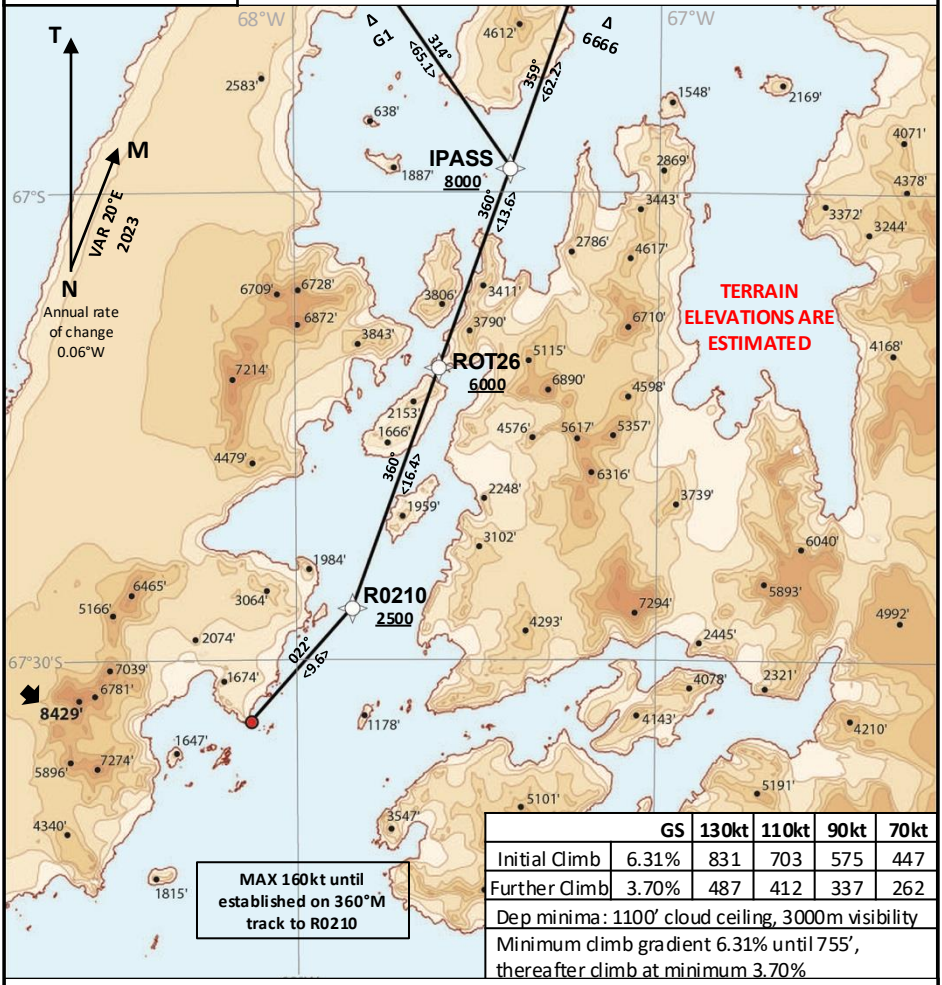
Minimum climb gradient 5.0% until 800’, thereafter climb at minimum 3.7%

1. In the event of an engine failure before reaching 1100’ remain VMC and return to EGAR. If engine failure occurs IMC before R0210 continue with procedure to be at R0210 or above 2500’ then turn RIGHT to RMATF to join EGAR 36 approach not below 3300’.
2. Use course guidance from RNAV, ensure RAIM is available throughout. Monitor CDI sensitivity during departure as it may not auto-scale.
3. Expect severe turbulence and mountain wave activity in strong wind conditions

MSA	30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR
11000 NDB(L) ROT		118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	RWY 36 RNAV1 SID

PROCEDURE NOT FLIGHT CHECKED

Departure Procedure: Climb on runway heading to 413’, then turn right to intercept 022°M track to R0210 climbing to be at or above 2500’ by R0210. At R0210 turn LEFT to track 360°M to IPASS climbing to be at or above 6000’ by ROT26 and at or above 8000’ by IPASS. From IPASS track direct to either G1 or 6666, continuing climb to be at or above 11000’.



	GS	130kt	110kt	90kt	70kt
Initial Climb	6.31%	831	703	575	447
Further Climb	3.70%	487	412	337	262

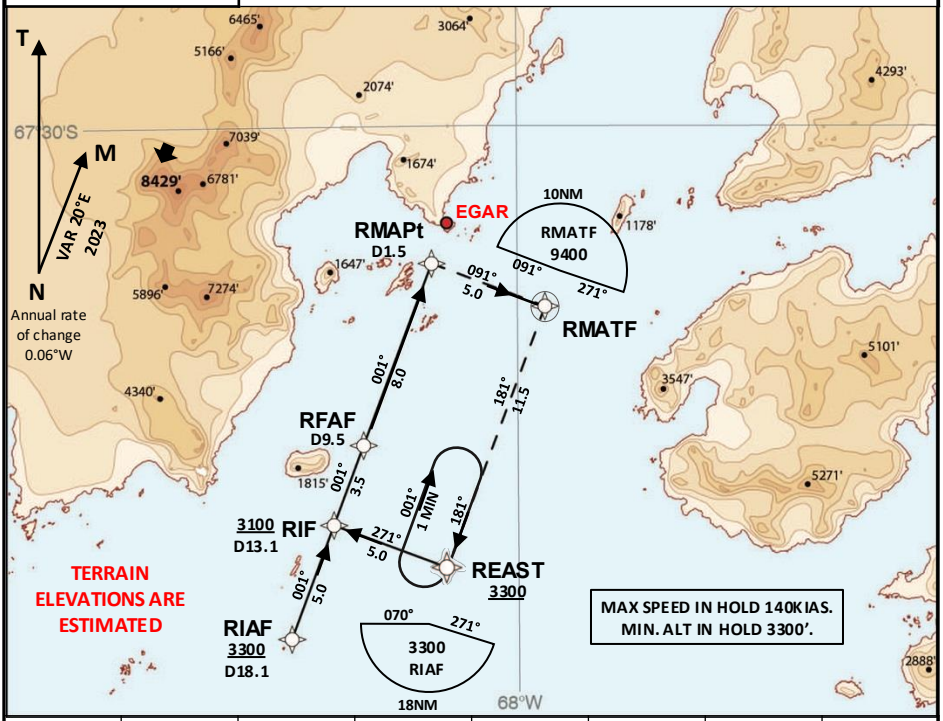
Dep minima: 1100’ cloud ceiling, 3000m visibility

Minimum climb gradient 6.31% until 755’, thereafter climb at minimum 3.70%

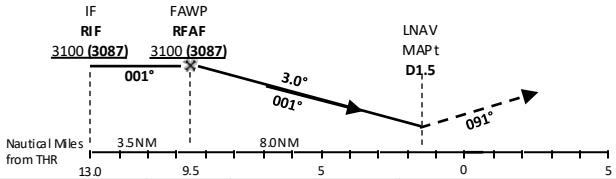
1. In the event of an engine failure before reaching 1100’ remain VMC and return to EGAR. If engine failure occurs IMC before R0210 continue with procedure to be at R0210 at or above 2500’ then turn RIGHT to RMATF to join EGAR 36 approach not below 3300’.
2. Use course guidance from RNAV, ensure RAIM is available throughout. Monitor CDI sensitivity during departure as it may not auto-scale.
3. Expect severe turbulence and mountain wave activity in strong wind conditions

MSA 30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	Bearings are MAGNETIC	RNAV RWY 36 ACFT CAT A&B

Missed Approach Procedure: Turn right immediately climbing to min 3300ft and track 091°M to RMATF. Max 130kt until RMATF. Continue to REAST to hold.



NM to MAPt	8	7	6	5	4	3	2
ALT **(HGT)**	3090 **(3077)**	2770 **(2757)**	2450 **(2437)**	2130 **(2117)**	1810 **(1797)**	1490 **(1477)**	1170 **(1157)**



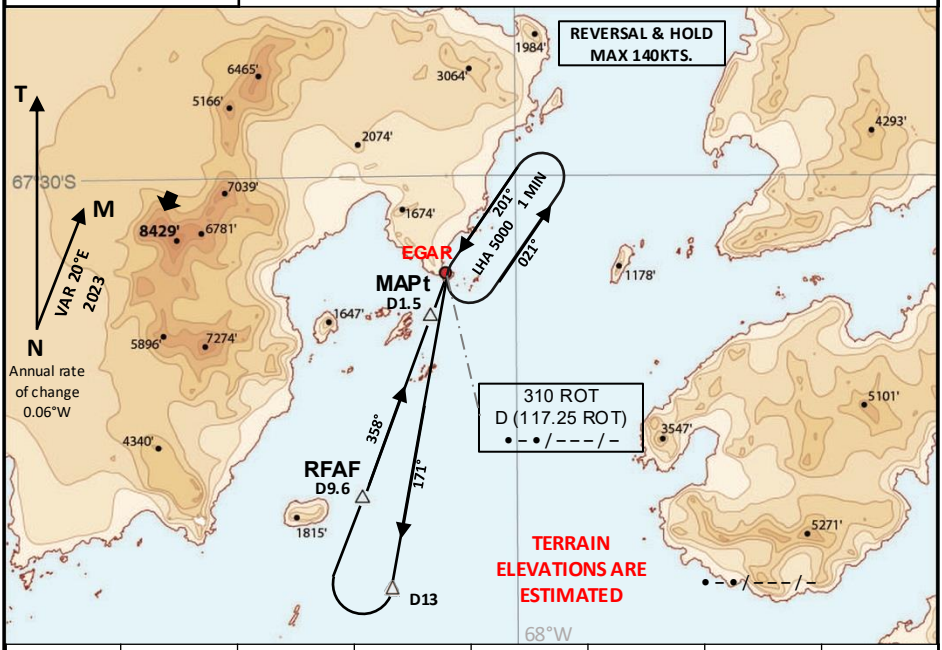
PROCEDURE NOT FLIGHT CHECKED

Missed App Gradient	2.5%	4.0%	5.0%	Approach Minima are based on the achievable Missed Approach climb gradient – 2.5, 4.0 or 5.0%								
MDA (All CATs) LNAV	700 **(687)**	630 **(617)**	580 **(567)**	MDA (Slope)	700 (2.83°)			630 (2.92°)			580 (2.98°)	
Met Visibility (Metres)	**3200**	**2800**	**2600**									
VM(C) Total Area	NOT PERMITTED			GS	60	80	100	60	80	100	60	80	100
MDA**(MDH)** East of Rwy 36	1150 **(1130)**			RoD	300	400	501	310	413	517	316	422	527

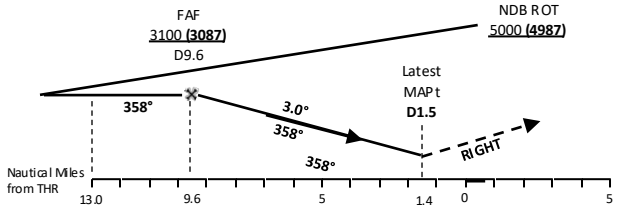
1. RMATF is a fly-over WP. In the event of a go-around, turn right without delay and intercept 091°M track to RMATF.
2. Ensure CDI sensitivity is 0.3NM by RFAF and RAIM is available.
3. Multiple masts (unlit) up to 200’ AMSL approx. 350m East of Runway
4. Caution: Icebergs up to approximately 300’ on approach.

MSA 30Nm	Rothera Radio			Apt Elev 12ft	ROTHERA – EGAR
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	Bearings are MAGNETIC	**NDB/DME RWY 36** **ACFT CAT A&B**

Missed Approach Procedure: If not visual by 740' turn RIGHT by D1.5 climbing on a heading to intercept R165 to 5000'. Then turn RIGHT to ROT NDB not WEST of R180.



NM to THR	8	7	6	5	4	3	2
ALT **(HGT)**	2570 **(2557)**	2250 **(2237)**	1930 **(1917)**	1610 **(1597)**	1290 **(1277)**	980 **(967)**	660 **(647)**



PROCEDURE NOT FLIGHT CHECKED

Missed App Gradient	2.5%	4.0%	5.0%	Approach Minima are based on the achievable Missed Approach climb gradient – 2.5, 4.0 or 5.0%
MDA (All CATs)	740 **(727)**	630 **(617)**	580 **(567)**	
Met Visibility (Metres)	**3400**	**2800**	**2600**	MDA (Slope) 740 (3.0°)

VM(C) MDA(MDH)												
Total Area	(All CATs) NOT PERMITTED	GS	60	80	100	60	80	100	60	80	100
East of Rwy 36	(All CATs) 1150 **(1130)**	RoD	300	400	501	310	413	517	316	422	527

1. Shuttle in hold
2. Severe turbulence on short final with wind from East
3. Caution: >> Birds >> Icebergs up to approx. 300' on approach
4. Multiple masts (unlit) up to 200' AMSL approx. 350m East of Runway

MSA 30Nm	Rothera Radio			Skiway Elev approx. 825'	ROTHERA – EGAR Skiway 02/20
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	

Skiway Coordinates: **S67 31.9 W068 11.0**
Rothera Radio: VHF 118.1 HF 5080, 7775, 9106
Phone: +44 1223 221670 Iridium +881 621 463 301

For current Rothera chart status and Visiting aircraft information consult
https://www.bas.ac.uk/polar-operations/polar-science-facilities/aircraft/pilots/

Warning:

1. Daily weather balloons, and/or RPAS activity; contact Rothera Operations and consult the latest BAS NOTAMS.
2. **Severe turbulence** can be expected on the approach to skiway 02 and in all directions with winds greater that 15kts.
3. Approach to skiway 02 is over steeply rising ground.
4. Skiway marked with 205 lt drums, land to the south of the drum line.

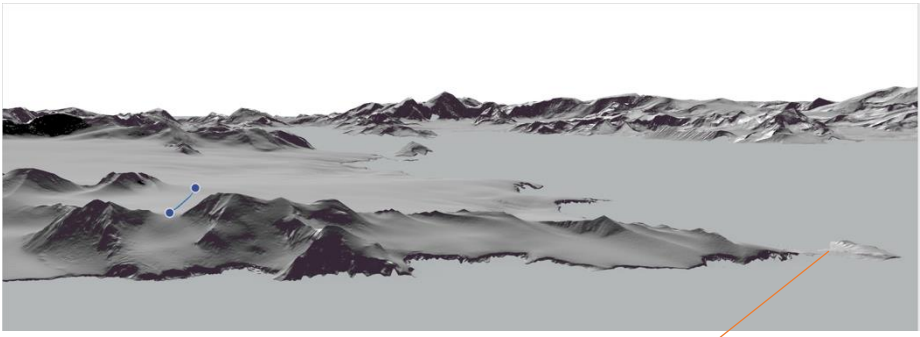
Cautions:

1. Steeply rising ground to the West and South of the skiway.
2. Unprepared skiway.
3. Birds
4. Skiway used for recreation. Possible foot/ski and skidoo activity.

Notes:

1. Fuel Jet A1 available by prior arrangement only.
2. All aircraft require Prior Permission.
3. Access to the skiway from Rothera Station may be restricted January to March due to snow conditions
4. New crevassing between Station and Skiway may restrict aircraft support and fuel provision

02 Threshold **Approximately S67 32.400 W068 11.954 Elev 825'.**
20 Threshold **Approximately S67 31.354 W068 09.957 Elev 828'.**
02 & 20 Takeoff/Landing distance approximately 8000 feet– Surface type: Snow.

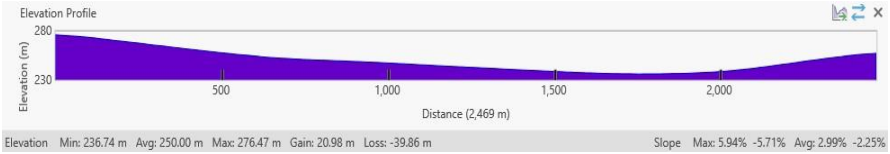


Skiway looking North through Skiway Col

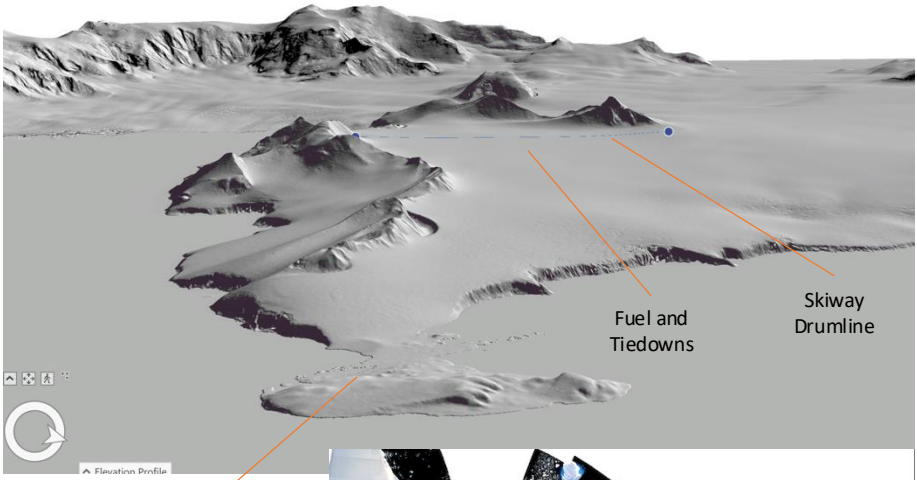
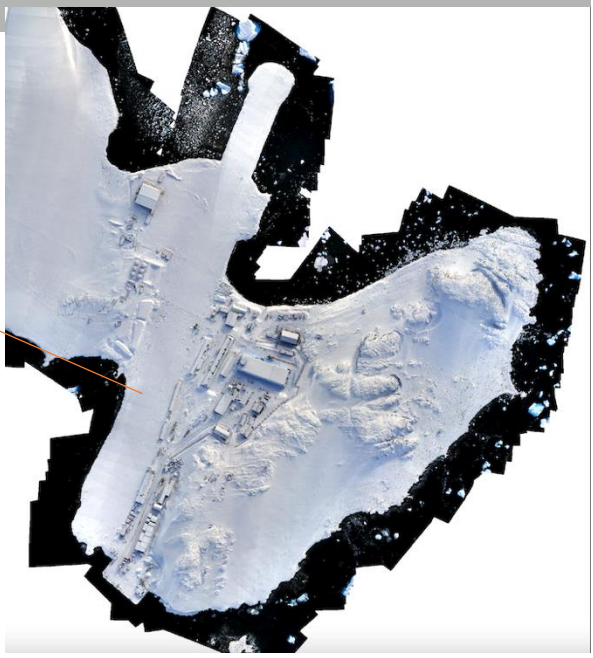
Rothera Runway & Base

Skiway 02 End

Skiway 20 End



MSA 30Nm	Rothera Radio			Apt Elev 12’	ROTHERA – EGAR
11000 NDB(L) ROT	118.1	5080 7775	NDB 310 (D) 117.25	All Bearings & Tracks are Magnetic	**Airfield photos**

Aerodrome Reference Point: S67 34.06 W068 07.63
Rothera Radio: VHF 118.1 HF 5080, 7775, 9106
Phone: +44 1223 221670 Iridium +881 621 463 301

For current Rothera chart status and Visiting aircraft information consult
https://www.bas.ac.uk/polar-operations/polar-science-facilities/aircraft/pilots/