ACP-2024-023

Cornwall Airport Newquay
IAP to RWY 12 and 30
Assessment Meeting

V1.1

24 July 2024

Purpose of meeting

- To demonstrate to the CAA and to expand upon the statement of need submitted May 2024 for Newquay IAP runways 12 and 30.

- To agree on the scope of ACP required, to align with CAA Airspace Modernisation Strategy and implementation of PBN

- Clarification of timescales

Cornwall Airport Newquay

Review of statement of need

Cornwall Airport Newquay

Brief History

- Trebelzue (Trebelzue Big Field) opened in 1933 on land much closer to the coast than we are today. Used initially for the delivery of mail.

- 1 December 2008 and the new Newquay Airport was born, the RAF having relinquished the airfield estate permanently to Cornwall Council who in turn created ‘Cornwall Airport Newquay’… as it is known today.

Cornwall Airport Newquay

Information Classification: CONTROLLED

AERODROME CHART - ICAO

ARP 502627N 0045943W

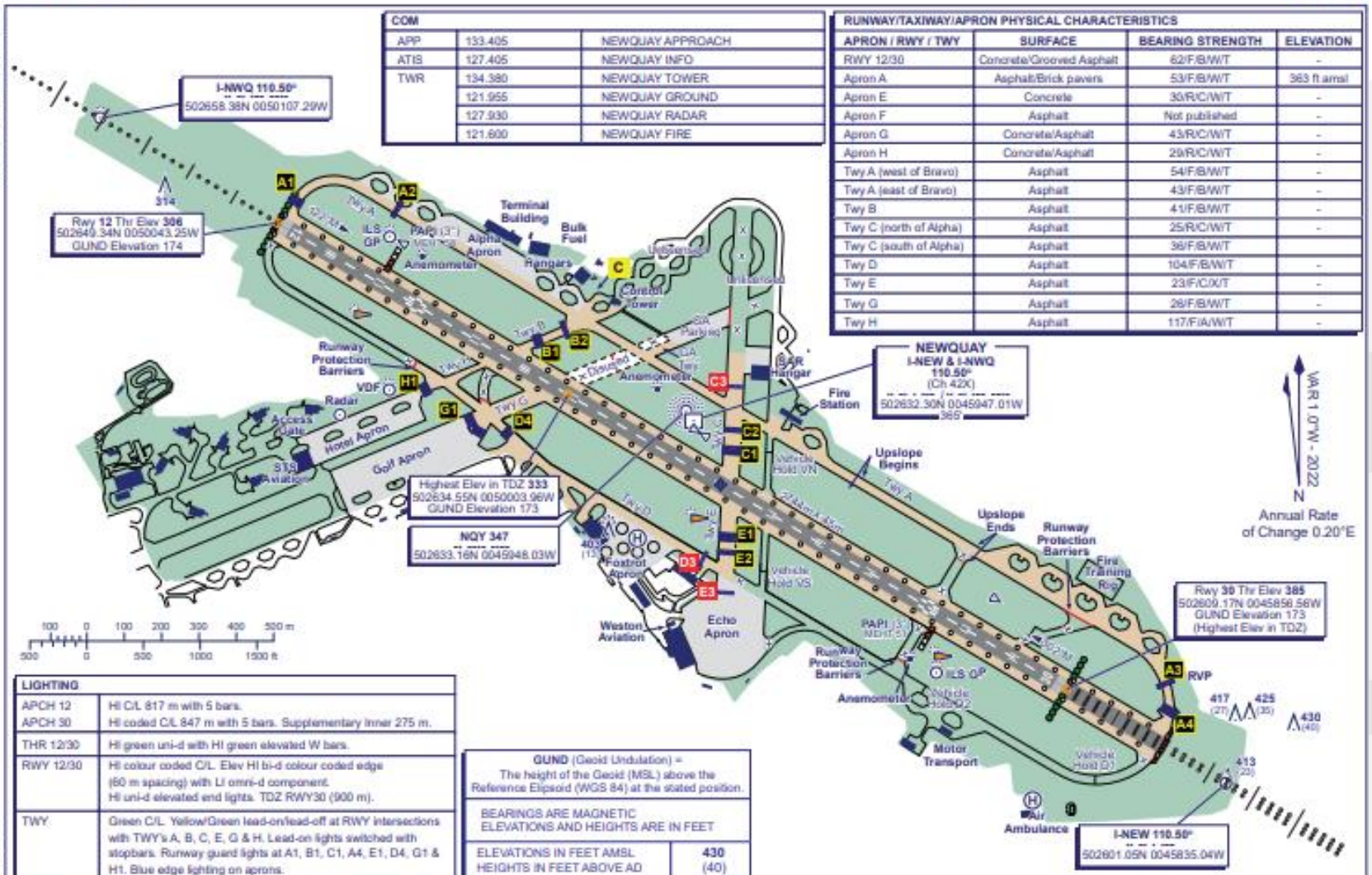
AD ELEV 390FT

NEWQUAY
EGHQ

AERO INFO DATE 07 MAR 24

COM		
APP	133.405	NEWQUAY APPROACH
ATIS	127.405	NEWQUAY INFO
TWR	134.380	NEWQUAY TOWER
	121.955	NEWQUAY GROUND
	127.930	NEWQUAY RADAR
	121.600	NEWQUAY FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 12/30	Concrete/Grooved Asphalt	62/F/B/W/T	-
Apron A	Asphalt/Brick pavers	53/F/B/W/T	363 ft amsl
Apron E	Concrete	30/R/C/W/T	-
Apron F	Asphalt	Not published	-
Apron G	Concrete/Asphalt	43/R/C/W/T	-
Apron H	Concrete/Asphalt	29/R/C/W/T	-
Twy A (west of Bravo)	Asphalt	54/F/B/W/T	-
Twy A (east of Bravo)	Asphalt	43/F/B/W/T	-
Twy B	Asphalt	41/F/B/W/T	-
Twy C (north of Alpha)	Asphalt	25/R/C/W/T	-
Twy C (south of Alpha)	Asphalt	36/F/B/W/T	
Twy D	Asphalt	104/F/B/W/T	-
Twy E	Asphalt	23/F/C/X/T	-
Twy G	Asphalt	26/F/B/W/T	-
Twy H	Asphalt	117/F/A/W/T	-



LIGHTING	
APCH 12 APCH 30	HI C/L 817 m with 5 bars. HI coded C/L 847 m with 5 bars. Supplementary Inner 275 m.
THR 12/30	HI green uni-d with HI green elevated W bars.
RWY 12/30	HI colour coded C/L. Elev HI bi-d colour coded edge (60 m spacing) with LI omni-d component. HI uni-d elevated end lights. TDZ RWY30 (900 m).
TWY	Green C/L. Yellow/Green lead-on/lead-off at RWY intersections with TWY's A, B, C, E, G & H. Lead-on lights switched with stopbars. Runway guard lights at A1, B1, C1, A4, E1, D4, G1 & H1. Blue edge lighting on aprons.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	430 (40)

CHANGE (5/24): RUNWAY SURFACE TABLE GROOVED ASPHALT.

AD 2-EGHQ-2-1

Cornwall Airport Newquay



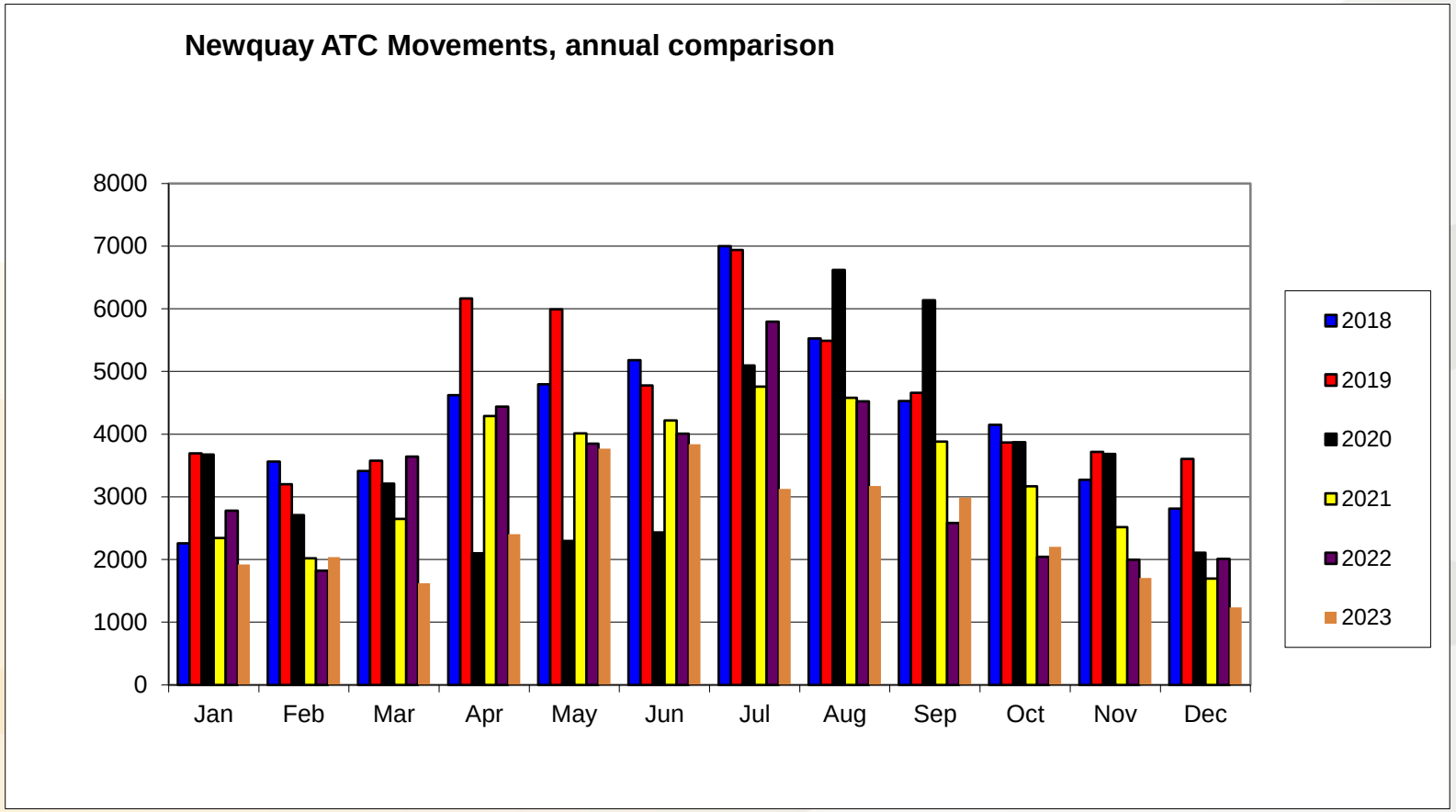
Cornwall Airport Newquay

2024 route map



Cornwall Airport Newquay

Newquay ATC Movements



Cornwall Airport Newquay

Cornwall Airport Newquay

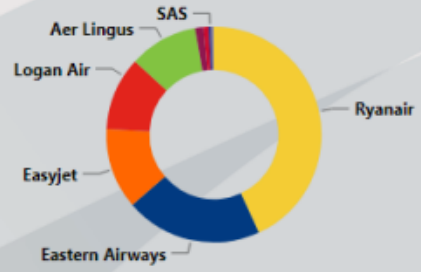
Annual Summary: April-2023 to February-2024

Total Passengers	Load Factor	Commercial Flights	Total Movements	Commercial Routes
406,363✓	68.59%!	5,604✓	19,434!	23✓
Prior Year: 252,043 (+61.23%)	Prior Year: 69.77% (-1.69%)	Prior Year: 4,193 (+33.65%)	Prior Year: 25,403 (-23.5%)	Prior Year: 23 (+0%)

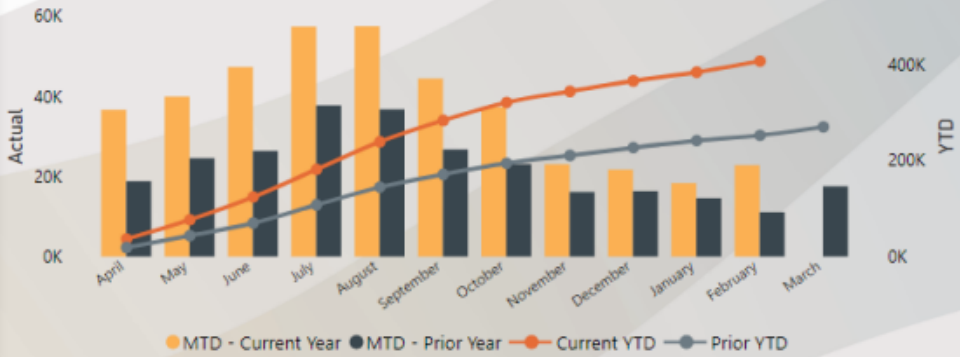


TOP 10 ROUTES	Airline Name CAPS	PAX	PAX PRIOR YTD	LOAD FACTOR	LOAD FACTOR PRIOR YTD	FLIGHTS	FLIGHTS PRIOR YTD
LONDON GATWICK	EASTERN AIRWAYS	79,396	68,251	65.6%	66.7%	1,656	1,418
MANCHESTER	EASYJET	43,946	30,186	80.9%	81.7%	307	212
FARO	RYANAIR	38,848	20,185	82.4%	86.2%	244	122
DUBLIN INTERNATIONAL	RYANAIR	34,964	0	61.9%	0.0%	294	0
ALICANTE	RYANAIR	31,076	30,642	84.5%	84.5%	192	190
MALAGA/COSTA DEL SOL	RYANAIR	30,218	0	83.9%	0.0%	186	0
LONDON STANSTED	RYANAIR	29,242	0	68.9%	0.0%	222	0
DUBLIN INTERNATIONAL	AER LINGUS	27,469	21,066	69.6%	82.5%	539	345
MANCHESTER	LOGAN AIR	26,211	21,702	67.0%	80.1%	658	458
BELFAST/CITY	AER LINGUS	14,382	0	58.3%	0.0%	335	0

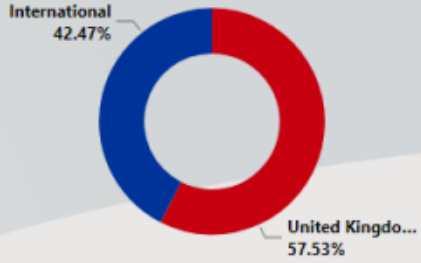
Pax split by Airline



Financial Year - MTD & YTD



Pax split by Country Category



Cornwall Airport Newquay

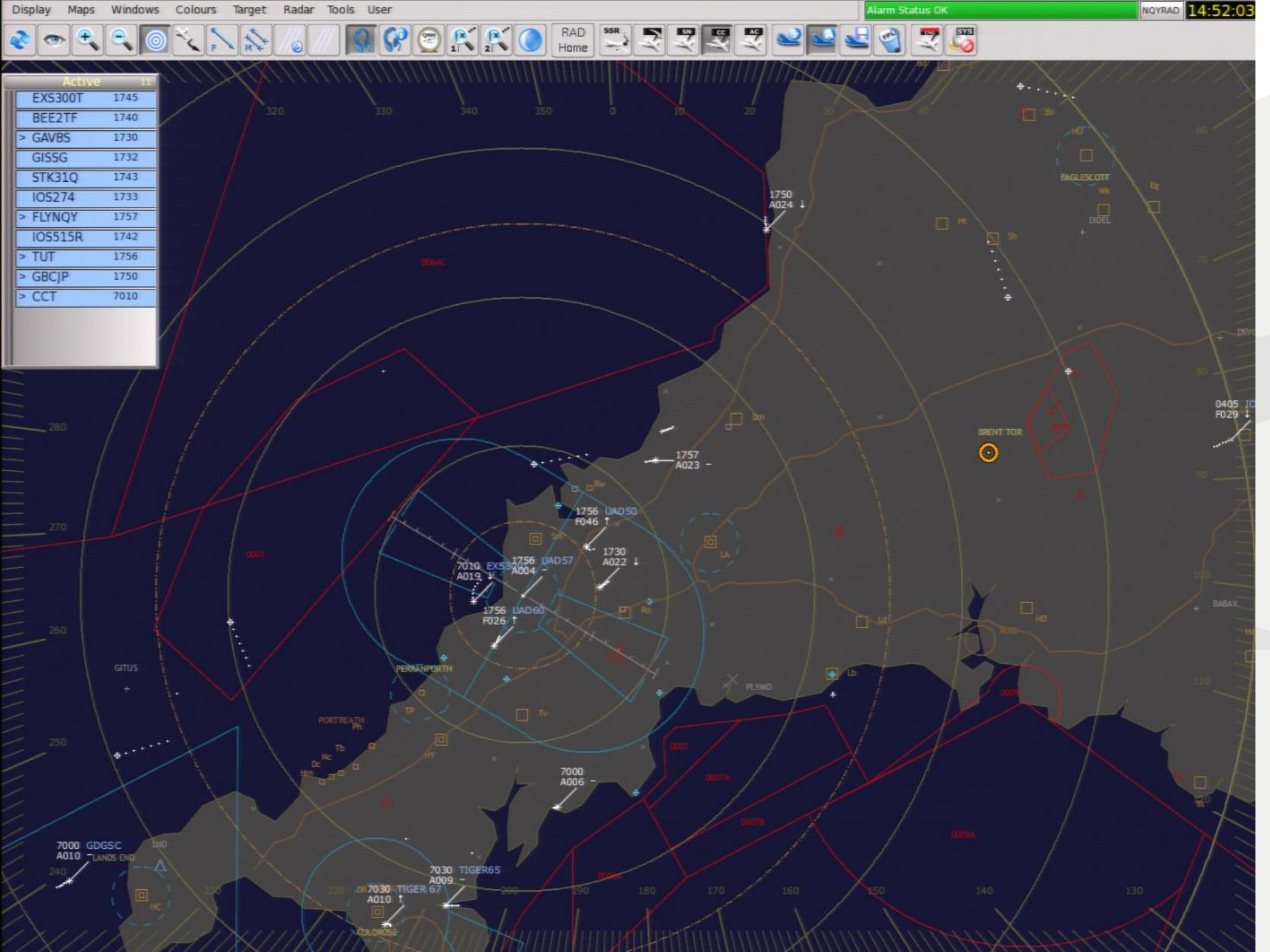
PRIMARY & SECONDARY RADAR



Over 80 nautical mile range but normally used out to 60 miles (i.e. Exeter and Isles of Scilly).

Mode A
Mode C
Mode S

Cornwall Airport Newquay


Display
Maps
Windows
Colours
Target
Radar
Tools
User
Alarm Status OK
NQYRAD
14:52:03
RAD
Home
Active
EXS300T 1745
BEE2TF 1740
> GAVBS 1730
GISSG 1732
STK31Q 1743
IOS274 1733
> FLYNQY 1757
IOS515R 1742
> TUT 1756
> GBCJP 1750
> CCT 7010
1750
A024
1757
A023
1756 UAD50
F046
1730
A022
7010 EXS3
A019
1756 UAD57
A004
1756 UAD60
F026
0405
F029
BRENT TOR
EAGLESCOTT
DIDEL
PERRANPORTH
PLYMO
GITUS
PORTREATH
7000
A006
7000 GDGSC
A010
LANDS END
7030 TIGER65
A009
7030 TIGER 67
A010
CULDROSE

Class G. Types of FIS (CAP774)

- DECONFLICTION SERVICE
- TRAFFIC SERVICE
- PROCEDURAL SERVICE
- BASIC SERVICE

Cornwall Airport Newquay

INSTRUMENT LANDING SYSTEM

Runway 12: CAT I Instrument Landing System - to pilot's decision altitude, usually around 200ft above threshold elevation.



Runway 30: CAT IIIb Instrument Landing System to runway touchdown ('autoland') and roll-out.

Cornwall Airport Newquay

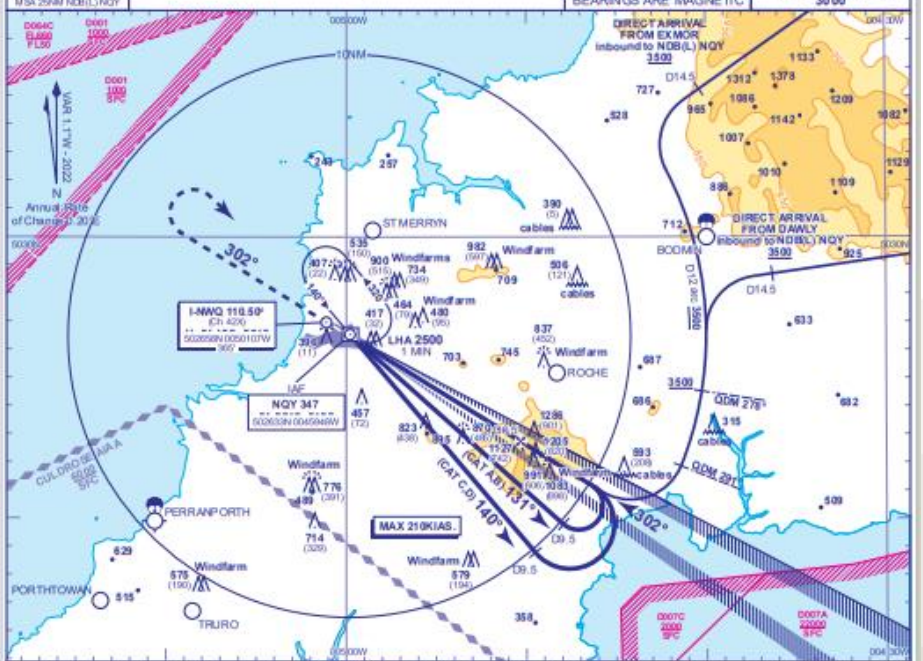
INSTRUMENT APPROACH CHART - ICAO

NEWQUAY
ILS/DME/NDB(L)
RWY 30
(ACFT CAT A,B,C,D)

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	385
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION	1286 AMSL (901) (ABOVE THR)
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC	

MSA 25NM NDB(L) NQY

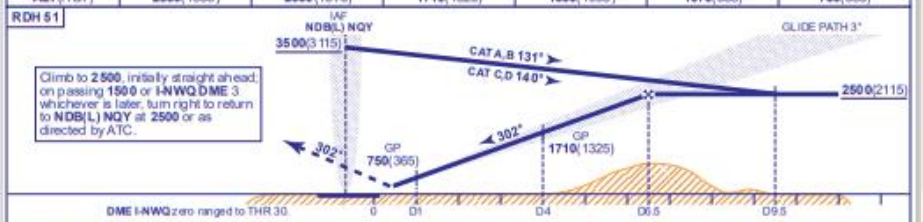
TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-NWQ	6	5	4	3	2	1
ALT(HGT)	2350(1965)	2030(1645)	1710(1325)	1390(1005)	1070(685)	750(365)

RDH 51



Climb to **2500**, initially straight ahead; on passing **1500** or **I-NWQ DME** 3 whichever is later, turn right to return to **NDB(L) NQY** at **2500** or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	540(155)	547(162)	556(171)	566(181)
	CAT II	447(62)	456(71)	469(84)	483(98)
VM(C)OCA (OCH AAL)	Total Area	790(400)	1200(810)	1330(940)	1330(940)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Advise ATC and continue as for normal procedure. Radar Ranges will be provided at 8NM outbound and at 4NM inbound.

NOTE ATC will normally require aircraft to hold no lower than **3500**.

CHANGE (6/24): OCA(OCH) CAT II CAT C AND D INCREASE.

AERO INFO DATE 14 MAR 24

AD 2-EGHQ-8-5

Cornwall Airport Newquay

INSTRUMENT APPROACH CHART - ICAO

NEWQUAY
ILS/DME/NDB(L)
RWY 30
(ACFT CAT A,B,C,D)

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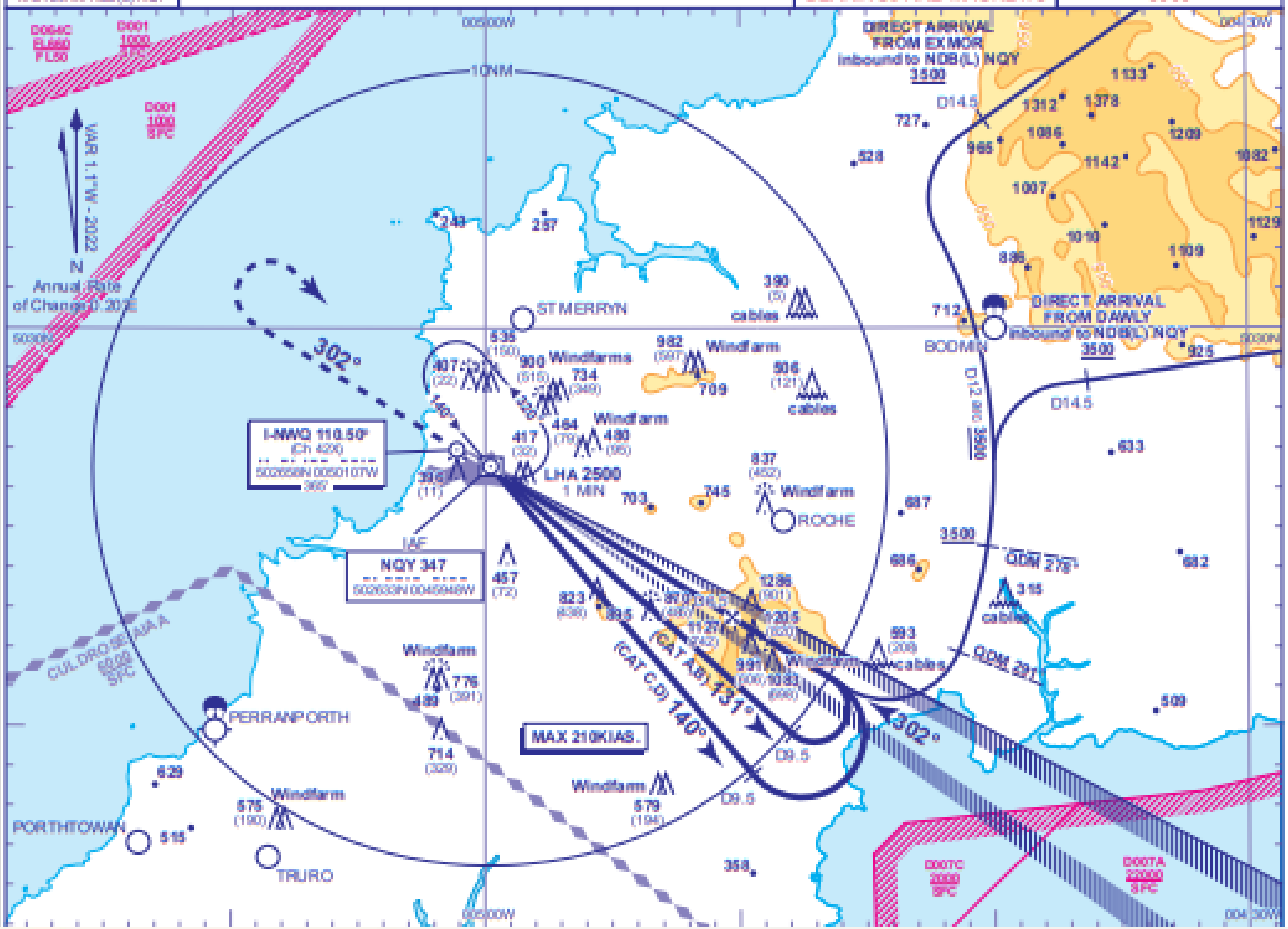

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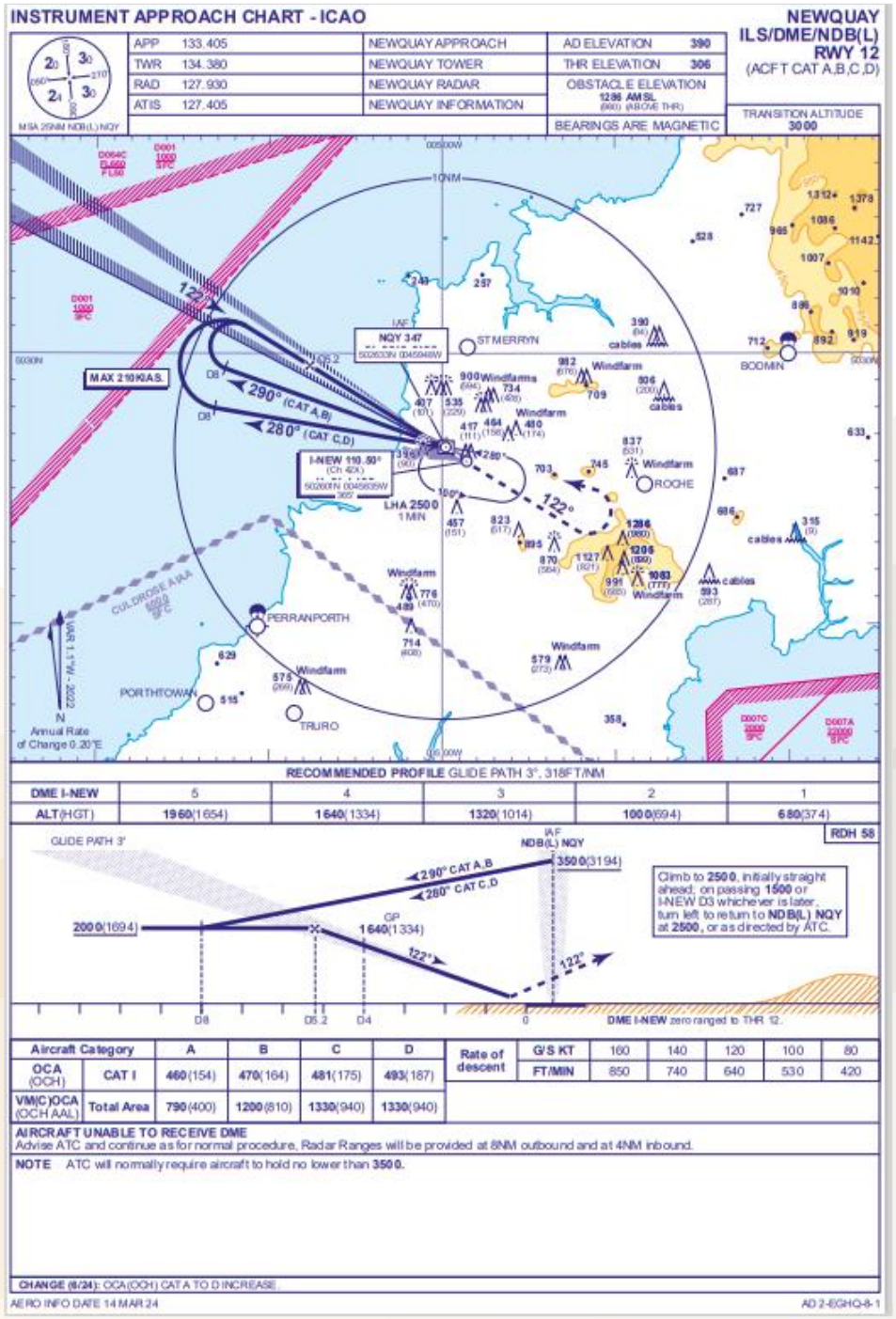

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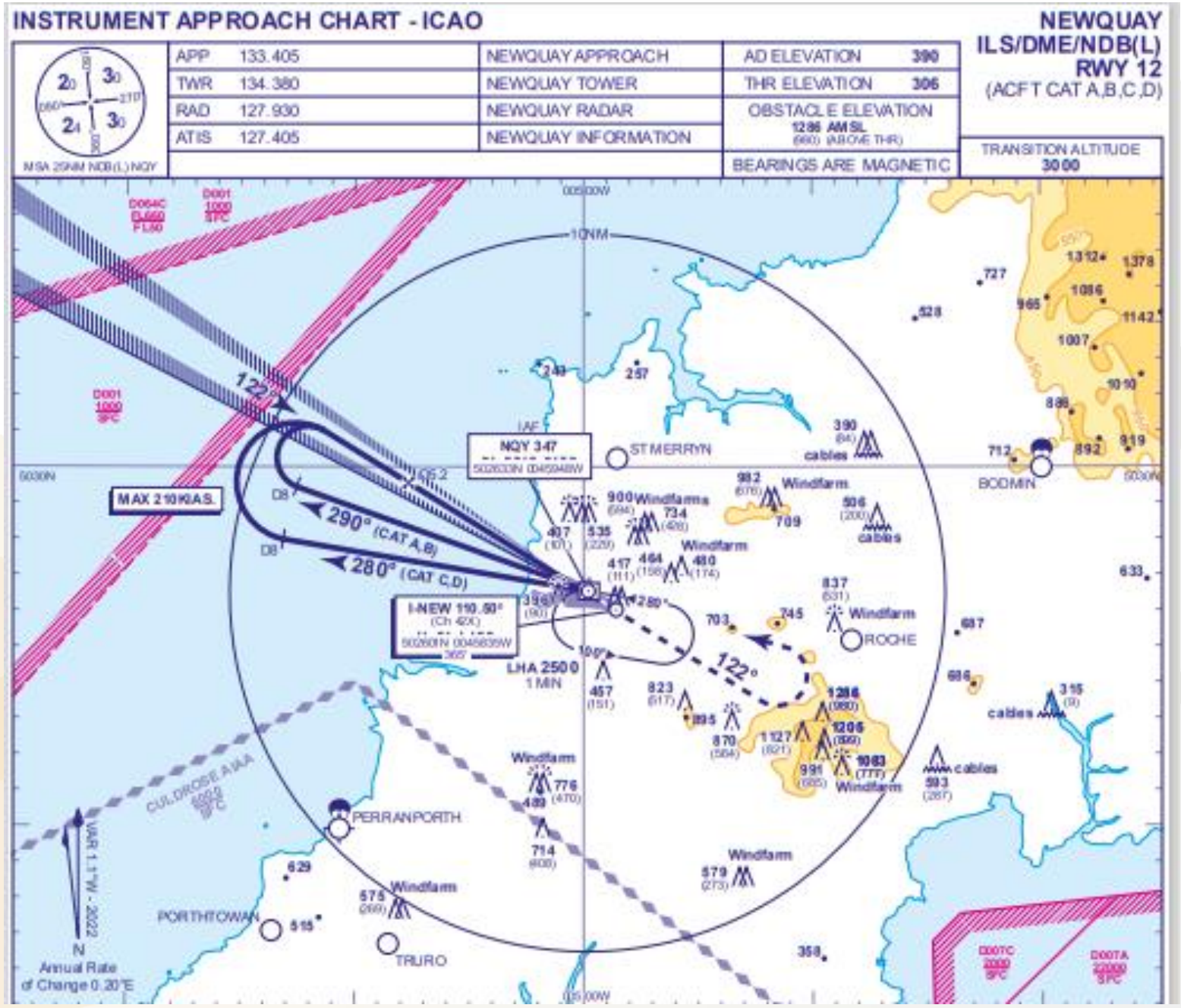


INSTRUMENT RUNWAY VISUAL RANGE (IRVR)

- Transmissometers used in poor visibility to provide an accurate visibility reading/value





- Required for pilot's to establish whether an instrument approach is achievable and legal.

Cornwall Airport Newquay

NON-DIRECTIONAL BEACON

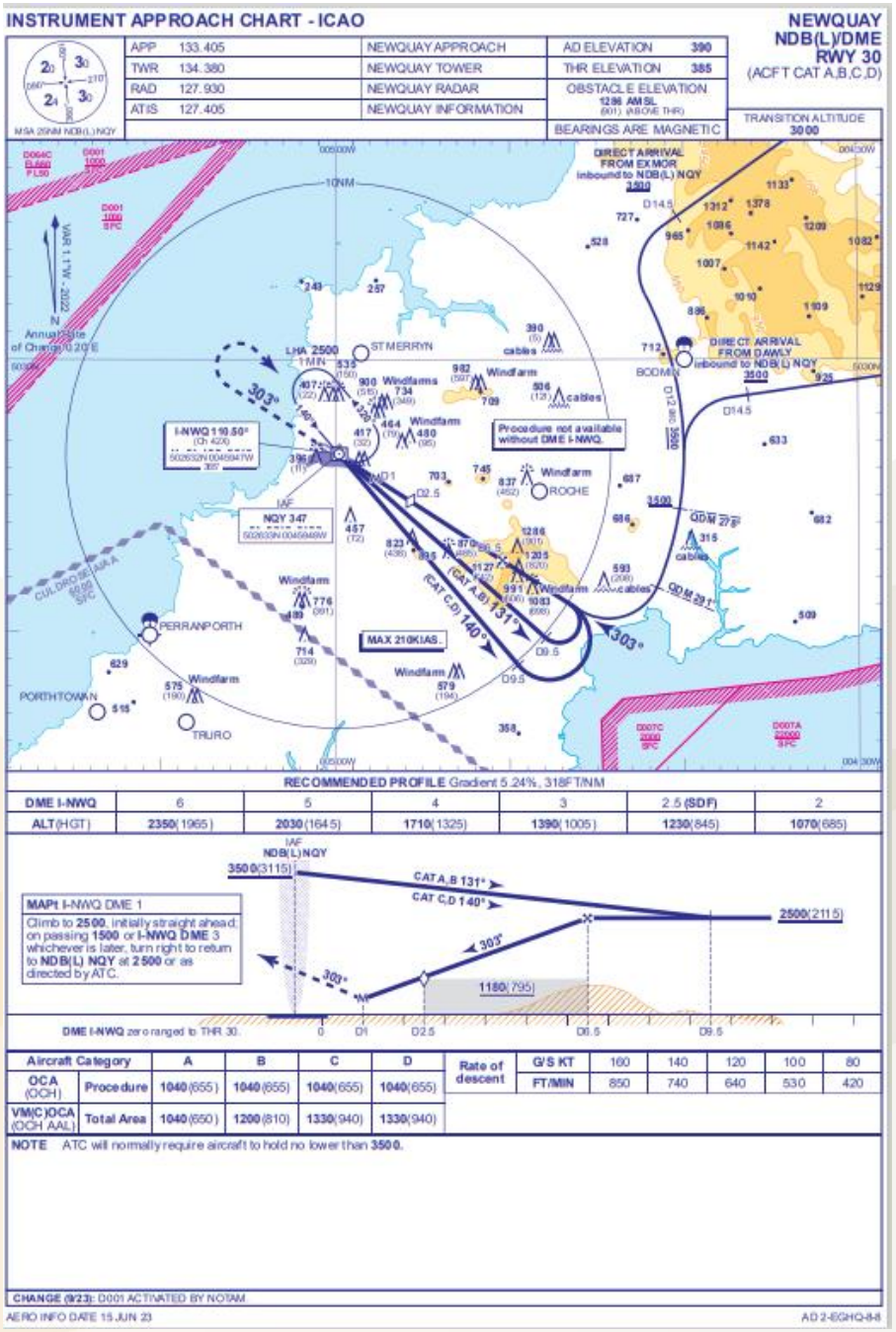
Frequency 347KHz “NQY”

DME channel linked to the ILS

110.5MHz, Zero range at thresholds



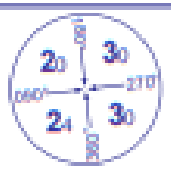
Cornwall Airport Newquay



Cornwall Airport Newquay

INSTRUMENT APPROACH CHART - ICAO

NEWQUAY
NDB(L)/DME
RWY 30
(ACFT CAT A,B,C,D)



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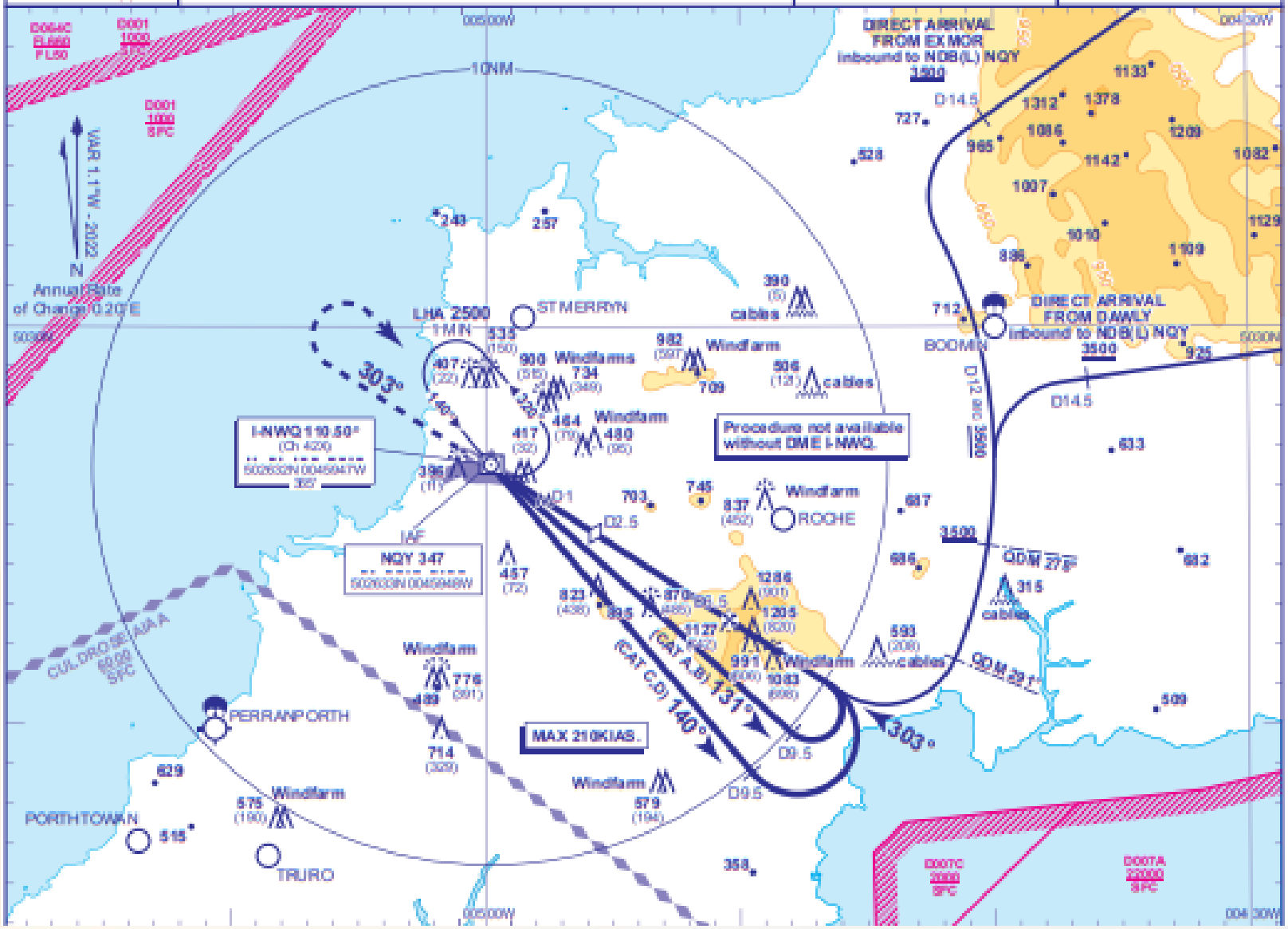
TRANSITION ALTITUDE
3000



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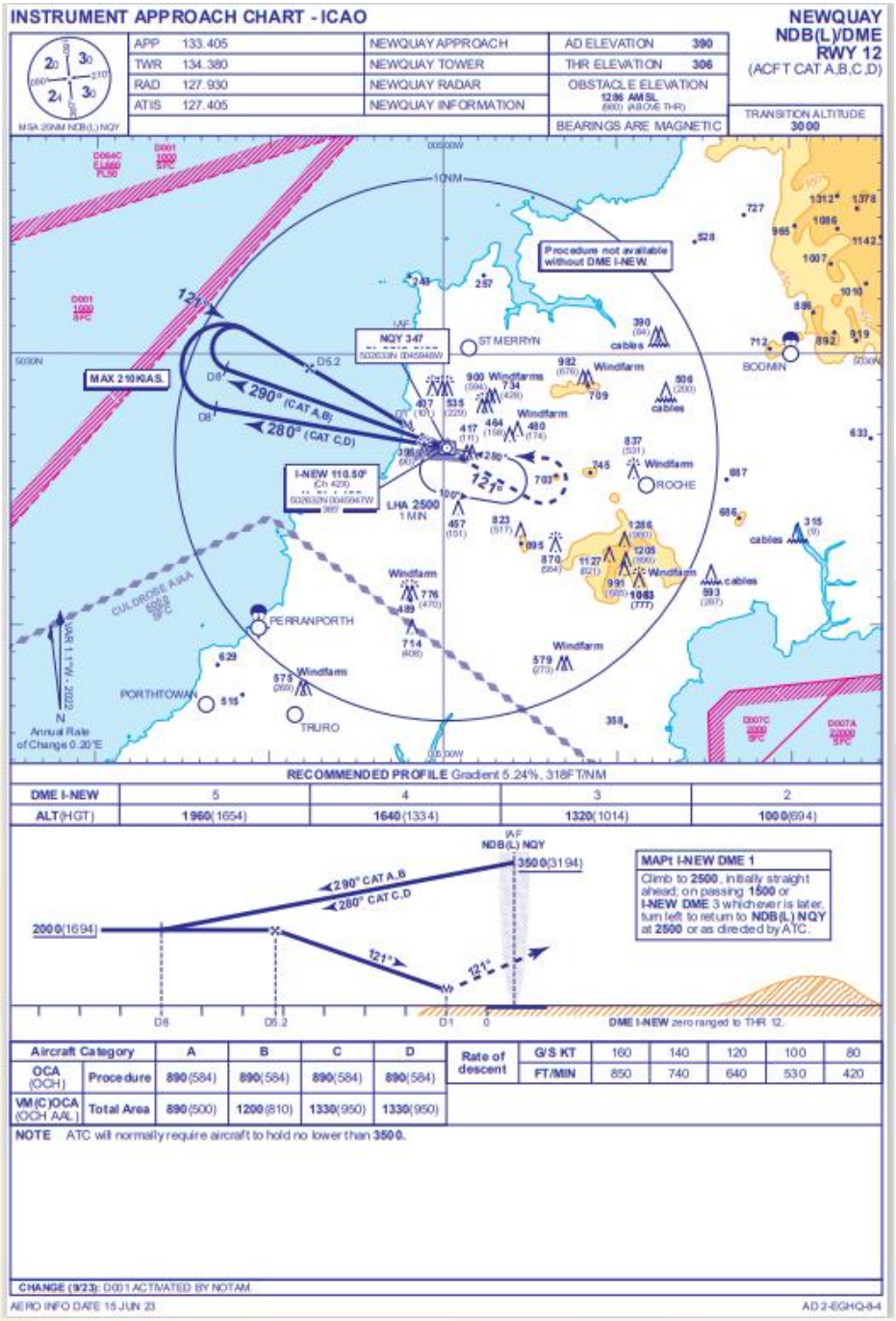

Cornwall Airport Newquay

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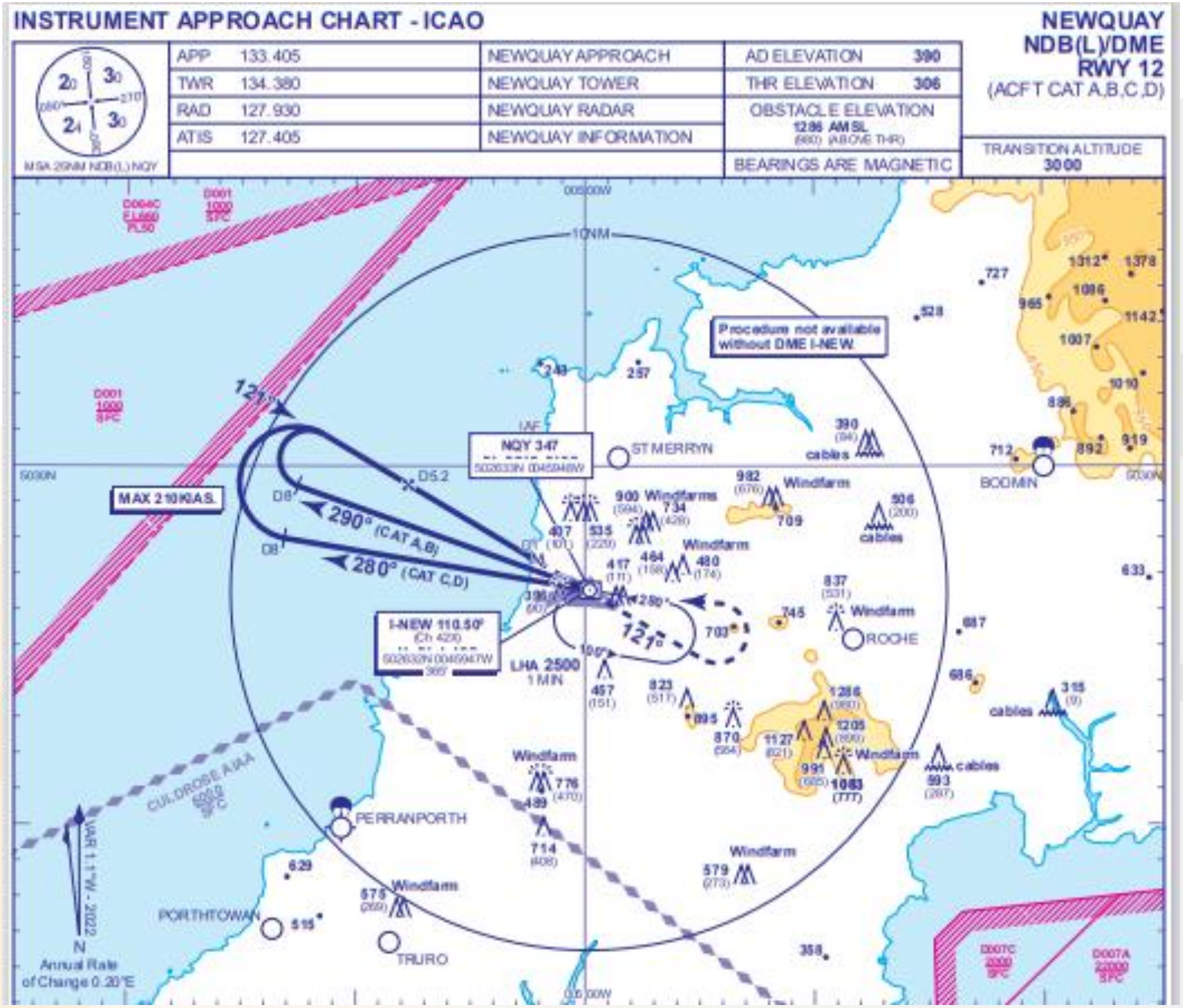

Navigation Aids – Lighting



ILS CAT 3B COMPLIANT PROVIDING GUIDANCE TO TOUCHDOWN
FOR CAT 3 COMPLIANT AIRCRAFT & CREWS

Cornwall Airport Newquay

Other types of IFR approach:

Runway 30

- LOC/DME/NDB(L)
- SRA RTR 2NM

Runway 30

- LOC/DME/NDB(L)
- SRA RTR 2NM

(5-year IFP review completed 2024 – Osprey CSL)

Cornwall Airport Newquay

Coastguard



- 2 x S92 helicopters
- Operate 24 hours a day
- Callsign Rescue 924 (Cat B/A)
- Operate from NE side of the airport close to fire station and ATC.
- Fixed wing SAR base commences November 2024
- Control of lighting runway direction, not ILS

Cornwall Airport Newquay

Helimed

Helimed 01A . AW169

Based at Cornwall Airport Newquay, provides an air ambulance service for Cornwall Air Ambulance Trust

Operate until 0200L when staffing permits



Cornwall Airport Newquay



Training



Newquay Airport provides facilities to airlines, military units and general aviation operators for (VFR & IFR) pilot training and flying familiarisation.



Cornwall Airport Newquay

G7 Summit June 2021

Newquay Airport was the designated arrival and departure airport for the G7 Summit in Cornwall.





Cornwall Airport Newquay

Information Classification: CONTROLLED



SPACEPORT CORNWALL

Virgin Orbit Jan 2023

Spaceport Cornwall hosted the UK's first horizontal launch space flight in January 2023. Virgin Orbit mission "Start Me Up"



Cornwall Airport Newquay

Target Implementation Date / Timeline

- 6 June 2030 (PBN-IR 2030)

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- Define — Summer 2024
- Develop and Assess
- Consult and Engage
- Update and Submit
- Decide
- Implement — Spring 2030
- Review — Annual

Cornwall Airport Newquay

Issues or opportunities arising from proposed change

- Compliance with future airspace policy
- Redundancy for ILS
- Operator preferences
- Training flights
- Out of hours emergency services
- Ground based equipment maintenance

Cornwall Airport Newquay

Options to exploit opportunities or address issues identified

- RNP approaches
- Any required associated airspace in accordance with UK CAA containment policy for Instrument Flight Procedures

Cornwall Airport Newquay

Potential consultees

- Airlines
- General Aviation
  - Roche, St Merryn, Perranporth, Bodmin, Land End airfield users
- Military Aviation
- UK Space Agency
- Culdrose ATCU
- Natural England
- Cornwall Council
- Property owners overflown by new routes

Cornwall Airport Newquay

Cornwall Airport Newquay

Questions?

Cornwall Airport Newquay