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AIRAC AIP AMDT 011/23

Effective Date - 30 NOV 2023

Publication Date – 19 OCT 2023

PAGE REVISIONS

AIRAC Changes incorporated in this Amendment are:

GEN 0.2	**Record of AIP Amendments:** Updated.
GEN 0.3	**Record of AIP Supplements:** Updated Text.
GEN 0.4	**Checklist of Pages:** Updated.
GEN 3.2	**Aeronautical Charts**: New EIDL and EIWF Charts, Corrections to charts not contained in the AIP: Incorporation of PERM NOTAM listed below.
ENR 5.5	**Aerial Sporting and Recreational Activities:** Updated Content and Updated Charts.
EIDL AD	**EIDL AD Updated sections:** AD 2.2, AD 2.3, AD 2.6, AD 2.10, AD 2.11, AD 2.12, AD 2.13, AD 2.14, AD 2.15, AD 2.17, AD 2.18 and AD 2.22.
EIWF AD	**AD 2.24 Charts Related to Aerodrome:** New Charts. **AD 2.24 Charts Related to Aerodrome:** New Charts

Remove Pages	Insert Pages	
GEN 0.2-1/GEN 0.2-2	GEN 0.2-1/GEN 0.2-2	30 NOV 2023/30 NOV 2023
GEN 0.3-1/GEN 0.3-2	GEN 0.3-1/GEN 0.3-2	30 NOV 2023/30 NOV 2023
GEN 0.4-1/GEN 0.4-8	GEN 0.4-1/GEN 0.4-8	30 NOV 2023/30 NOV 2023
GEN 3.2-1/GEN 3.2-10	GEN 3.2-1/GEN 3.2-10	30 NOV 2023/30 NOV 2023
ENR 5.5-1/ENR 5.5-24	ENR 5.5-1/ENR 5.5-24	30 NOV 2023/30 NOV 2023
EIDL AD 2-1 / EIDL AD 2-16	EIDL AD 2-1 / EIDL AD 2-10	30 NOV 2023/30 NOV 2023
	EIDL AD 2.24-7.1/EIDL AD 2.24-7.2	30 NOV 2023/30 NOV 2023
	EIDL AD 2.24-9.1/EIDL AD 2.24-9.2	30 NOV 2023/30 NOV 2023
EIWF AD 2-1 / EIWF AD 2-12	EIWF AD 2-1 / EIWF AD 2-12	30 NOV 2023/30 NOV 2023
	EIWF AD 2.24-8.1/EIWF AD 2.24-8.2	30 NOV 2023/30 NOV 2023
	EIWF AD 2.24-9.1/EIWF AD 2.24-9.2	30 NOV 2023/30 NOV 2023

New Supplements for this Amendment: **NR 020/23**

Supplements cancelled in this Amendment: **NR 019/23, NR 020/22, NR 019/22, NR 018/22**

New AIC for this Amendment: **NIL**

AIC cancelled in this Amendment: **NIL**

PERM NOTAM* incorporated in this Amendment: **B1202/23**

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**Note: NOTAMC will be issued 14 days after effective date of this AIRAC AIP Amdt.*

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Record of Amendments

AIP AMENDMENT			
NR/Year	Publication date	Date Inserted	Inserted by

AIRAC AIP AMENDMENT			
NR/Year	Publication date	Effective date	Inserted by
001/23	15-DEC-2022	26-JAN-2023	
002/23	12-JAN-2023	23-FEB-2023	
003/23	09-FEB-2023	23-MAR-2023	
004/23	09-MAR-2023	20-APR-2023	
005/23	06-APR-2023	18-MAY-2023	
006/23	04-MAY-2023	15-JUN-2023	
007/23	01-JUN-2023	13-JUL-2023	
008/23	27-JUL-2023	07-SEP-2023	
009/23	24-AUG-2023	05-OCT- 2023	
010/23	21-SEP-2023	02-NOV-2023	
011/23	19-OCT-2023	30-NOV-2023	

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GEN 0.3 Record of AIP Supplements

NR/Year	Subject	AIP Section(s) Affected	Period of Validity	Cancellation Record
020/2023	Checklist of Valid AIP Supplements	GEN	30-Nov-2023	-
019/2023	Checklist of Valid AIP Supplements	GEN	02-Nov-2023	30-Nov-2023
018/2023	Kerry (EIKY) - Tower Cranes at MTU Kerry North Campus, Tralee, Co. Kerry	EIKY	02-Nov-2023	-
017/2023	Checklist of Valid AIP Supplements	GEN	05 Oct 2023	02-Nov-2023
016/2023	Dublin Airport (EIDW) Point Merge Fuelling STARs Withdrawal	EIDW	05 Oct 2023	-
015/2023	Checklist of Valid AIP Supplements	GEN	07 Sep 2023	05-OCT-2023
014/2023	Shannon Enroute - Special Procedures within the Shannon FIR/UIR/SOTA/NOTA for North Atlantic Traffic	EISN	07 Sep 2023	-
013/2023	Kerry (EIKY) NOTAM	EIKY	07 Sep 2023	-
012/2023	Checklist of Valid AIP Supplements	GEN	13-Jul-2023	07 Sep 2023
011/2023	Shannon Airport (EINN) Taxiway A - Pavement Rehabilitation Works	EINN	13-Jul-2023	-
009/2023	Dublin Airport (EIDW) Apron and Drainage Channel Refurbishment	EIDW	20-Apr-2023	-
007/2023	Dublin Airport (EIDW) Construction of Critical Taxiway North Phase 1	EIDW	23-Mar-2023	-
006/2023	Dublin, Co Dublin - Crane Activity	EIDW	23-Mar-2023	-
004/2023	Dublin Airport (EIDW) - Reconfiguration Works of Taxiways F-INNER, C, DN & DS	EIDW	23-Feb-2023	-
003/2023	Dublin Airport (EIDW) Installation of Aircraft Docking Guidance and Aircraft Fixed Electrical Ground Power - Phase 1, Including Reconfiguration of Aircraft Parking Stands Located West of Pier 1	EIDW	23-Feb-2023	-
001/2023	Dublin Airport (EIDW) Construction of Critical Taxiway North Phase 1, Operation of Reconfigured Twy F-Outer and Reintroduction of Twy F-Inner	EIDW	26-Jan-2023	-
031/2022	Cork Airport (EICK) - Runway Pavement Repairs	EICK	01-Dec-2022	-
030/2022	Met Eireann Meteorological - Radiosonde Helium Filled Balloon	EISN	01-Dec-2022	-
028/2022	Construction of Mobile Crane Ardderroo Wind Farm Turbines Co Galway	GEN	03-Nov-2022	-
027/2022	Dublin Airport (EIDW) South Apron Widening (SATW) Works - Phase 1 & 2 and Introduction of New Taxiway Tango (T)	EIDW	03-Nov-2022	-
026/2022	Ireland West (EIKN) Runway Guard Lights Taxiway Bravo	EIKN	03-Nov-2022	-
024/2022	Dublin Airport (EIDW) Construction of Apron 5H(12 New Parking Stands)	EIDW	08-Sep-2022	-

NR/Year	Subject	AIP Section(s) Affected	Period of Validity	Cancellation Record
023/2022	Waterford Airport (EIWF) RWY 03 NDB Approach	EIWF	08-Sep-2022	-
021/2022	Dublin Airport (EIDW) Runway 16/34 LVP Taxiing Lighting Installation Works - Phase 2	EIDW	11-Aug-2022	-
020/2022	Dublin Airport (EIDW) New Runway 10L/28R AIP Ireland Updates	EIDW	11-Aug-2022	30-Nov-2023
019/2022	Dublin Airport (EIDW) North Runway Operations and associated Instrument Flight Procedures (IFP's)	EIDW	11-Aug-2022	30-Nov-2023
018/2022	Dublin Airport (EIDW) New Runway 10L/28R Planned Operational Stages	EIDW	11-Aug-2022	30-Nov-2023
016/2022	Dublin Airport (EIDW) Refurbishment of Airfield Perimeter Road South of Rwy 10R_28L Phase 1 and Phase 2	EIDW	14-Jul-2022	-
012/2022	Ireland West (EIKN) Apron Bravo	EIKN	21-Apr-2022	-
007/2022	Waterford Airport (EIWF) Revised Minimum Safe Altitudes	EIWF	24-Mar-2022	-
003/2022	Ireland West (EIKN) ATIS	EIKN	27-Jan-2022	-
001/2022	Dublin Airport (EIDW) Construction of Temporary Taxiway F-Inner to Twy's C, DN and DS	EIDW	27-Jan-2022	-
009/2021	Dublin Airport (EIDW) Rwy 16/34 LVP Taxiing Lighting Installation Works - Phase 1	EIDW	15-Jul-2021	-
022/2019	SHANNON AIRPORT (EINN) Radio Navigation and Landing Aids	EINN	10-Oct-2019	-
020/2019	DUBLIN AIRPORT (EIDW) Radio Navigation and Landing Aids	EIDW	10-Oct-2019	-
Note: Cancelled Supplements may be requested from aipinfo@airnav.ie				

GEN 0.4 Check list of AIP Pages

New Pages *

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GEN 0		
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0.1-2	18 MAY 2023	
0.2-1	30 NOV 2023	*
0.2-2	30 NOV 2023	*
0.3-1	30 NOV 2023	*
0.3-2	30 NOV 2023	*
0.4-1	30 NOV 2023	*
0.4-2	30 NOV 2023	*
0.4-3	30 NOV 2023	*
0.4-4	30 NOV 2023	*
0.4-5	30 NOV 2023	*
0.4-6	30 NOV 2023	*
0.4-7	30 NOV 2023	*
0.4-8	30 NOV 2023	*
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0.5-2	15 JUN 2023	
0.6-1	19 MAY 2022	
0.6-2	19 MAY 2022	
0.6-3	19 MAY 2022	
0.6-4	19 MAY 2022	
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1.1-3	19 MAY 2022	
1.1-4	19 MAY 2022	
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1.2-2	02 DEC 2021	
1.2-3	02 DEC 2021	
1.2-4	02 DEC 2021	
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1.3-2	13 AUG 2020	
1.3-3	13 AUG 2020	
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1.4-2	08 DEC 2016	
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1.5-2	08 NOV 2018	
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1.7–32	15 JUN 2023	
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2.2-13	02 DEC 2021	
2.2-14	02 DEC 2021	
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2.5-2	08 OCT 2020	
2.6-1	11 FEB 2010	
2.6-2	11 FEB 2010	
2.7-1	13 OCT 2016	
2.7-2	13 OCT 2016	
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2.7-5	13 OCT 2016	
2.7-6	13 OCT 2016	
GEN 3		
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3.2-8	30 NOV 2023	*
3.2-9	30 NOV 2023	*
3.2-10	30 NOV 2023	*
3.3-1	18 MAY 2023	

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3.3-2	18 MAY 2023
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3.3-4	18 MAY 2023
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3.5-12	08 OCT 2020
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4.2-2	18 MAY 2023
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0.5–2	12 OCT 2017
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1.8-6	06 OCT 2022
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2.2-6	07 SEP 2023
2.2-7	07 SEP 2023
2.2-8	07 SEP 2023
2.2-9	07 SEP 2023
2.2-10	07 SEP 2023

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3.1-2	20 JUN 2019
3.2-1	17 DEC 2009
3.2-2	17 DEC 2009
3.3-1	07 SEP 2023
3.3-2	07 SEP 2023
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3.5-2	26 MAR 2020
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3.6-2	28 APR 2016
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5.1-4	02 NOV 2023
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5.6-6	27 FEB 2020
5.6-7	27 FEB 2020
5.6-8	27 FEB 2020
	ENR 6
6-1	23 MAR 2023
6-2	23 MAR 2023
6-3	23 MAR 2023
	AD 0
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0.1-2	07 MAR 2013
0.2-1	07 MAR 2013
0.2-2	07 MAR 2013
0.3-1	07 MAR 2013
0.3-2	07 MAR 2013
0.4-1	07 MAR 2013
0.4-2	07 MAR 2013
0.5-1	07 MAR 2013
0.5-2	07 MAR 2013
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0.6-2	25 FEB 2021
0.6-3	25 FEB 2021
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0.6-10	25 FEB 2021
0.6-11	25 FEB 2021
0.6-12	25 FEB 2021
0.6-13	25 FEB 2021
0.6-14	25 FEB 2021
	AD 1
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1.1-2	25 FEB 2021
1.1-3	25 FEB 2021
1.1-4	25 FEB 2021
1.2-1	04 NOV 2021
1.2-2	04 NOV 2021
1.3-1	28 JAN 2021

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1.5-1	25 FEB 2021
1.5-2	25 FEB 2021
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GEN 3.2 AERONAUTICAL CHARTS

1. RESPONSIBLE SERVICE

Aeronautical Charts for the territory of Ireland are published by

Post: The Irish Aviation Authority,
The Times Building
11-12 D'Olier Street
Dublin 2
D02 T449
Ireland

Phone: + 353 1 671 8655

Fax: + 353 1 679 2934

Email: info@iaa.ie

URL: http://www.iaa.ie

Charts based on ICAO documents: Annex 4, Doc 8697
Differences to these provisions are detailed in GEN 1.7
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Charting service is available during Office hours 0930-1730 Local Time.

2. MAINTENANCE OF CHARTS

2.0.1 2.1. Aeronautical Charts included in the AIP are kept up to date by amendments to the AIP. Significant amendments or revisions in aeronautical information may be promulgated by NOTAM or Aeronautical Information Circular, as appropriate.

2.0.2 2.2. Corrections to Aeronautical Charts are promulgated as hand amendments to the AIP and listed in Sections GEN 0.5 and GEN 3.2.8. Items of information found after publication to have been incorrect at the aeronautical information date are corrected immediately by NOTAM if they are of operational significance.

3. PURCHASE ARRANGEMENTS

3.0.1 VFR Chart Scale 1:500,000

The Irish Aviation Authority has produced a visual flight rules (VFR) aeronautical encapsulated A4 folded chart Scale 1:500,000. This chart is for VFR navigation within the boundaries of the Shannon FIR. In addition to aeronautical information, the charts provide terrain contours, hydrographic, topographic, cultural and other visual features compatible with legibility at the scale of the chart - this information is supplied by Ordnance Survey Ireland and/or Ordnance Survey Northern Ireland. It is available to order at a cost of €30.00 including VAT from:

Post: OSI,
Map Sales Shop,
Phoenix Park,
Dublin 8,

Phone: + 353 1 802 5379

URL: https://store.osi.ie/index.php/paper-products/aeronautical-charts.html

3.0.2 VFR Airspace Chart Scale 1:500,000

The Irish Aviation Authority has produced a visual flight rules (VFR) aeronautical airspace chart Scale 1:500,000.
This chart is for VFR navigation within the boundaries of the Shannon FIR.
It is available free to download from the IAA Web Site,
URL: https://www.iaa.ie/commercial-aviation/airspace/aeronautical-charts

3.0.3 VFR Chart Scale 1:250,000

The Irish Aviation Authority has produced a visual flight rules (VFR) aeronautical encapsulated A4 folded chart Scale 1:250,000. It comprises two charts - front and back (East & West, North & South), covering the Shannon FIR. The charts are for VFR navigation within the boundaries of the Shannon FIR. In addition to aeronautical information, the charts provide terrain contours, hydrographic, topographic, cultural and other visual features compatible with legibility at the scale of the chart - this

information is supplied by Ordnance Survey Ireland and/or Ordnance Survey Northern Ireland. It is available to order at a cost of €30.00 including VAT per chart from:

Post: OSI,
Map Sales Shop,
Phoenix Park,
Dublin 8,

Phone: + 353 1 802 5379

URL: https://store.osi.ie/index.php/paper-products/aeronautical-charts.html

All other aeronautical charts are available to download from:-

URL: http://www.iaa.ie/commercial-aviation/airspace/aeronautical-charts

4. AERONAUTICAL CHART SERIES AVAILABLE

4.0.1 4.1 The following series of aeronautical charts are produced

Aeronautical Chart - ICAO 1:500,000
Aeronautical Chart 1:250,000
Instrument Approach Chart - ICAO *
Standard Departure Chart - Instrument (SID) - ICAO *
Standard Arrival Chart - Instrument (STAR) - ICAO *
Visual Approach Chart - ICAO*
Aerodrome Chart - ICAO *
Aircraft Parking/Docking Chart - ICAO *
Aerodrome Obstacle Chart - ICAO Type “A” (Operating Limitations) *
Aerodrome Obstacle Chart - ICAO Type “B”
Precision Approach Terrain Chart – ICAO
ATC Surveillance Minimum Altitude Chart *
(*Included in AIP Ireland)

URL: http://www.iaa.ie

4.0.2 4.2 General Description of Series of Charts

4.0.2.1 4.2.1 Aeronautical Chart - ICAO 1:500,000

The Irish Aviation Authority has produced a visual flight rules (VFR) aeronautical encapsulated A4 folded chart Scale 1:500,000. This chart is for VFR navigation within the boundaries of the Shannon FIR. In addition to aeronautical information, the charts provide terrain contours, hydrographic, topographic, cultural and other visual features compatible with legibility at the scale of the chart - this information is supplied by Ordnance Survey Ireland and/or Ordnance Survey Northern Ireland.

4.0.2.2 4.2.2 Aeronautical Chart 1:250,000

The Irish Aviation Authority has produced a visual flight rules (VFR) aeronautical encapsulated A4 folded chart Scale 1:250,000. It comprises two charts - front and back (East & West, North & South), covering the Shannon FIR. The charts are for VFR navigation within the boundaries of the Shannon FIR. In addition to aeronautical information, the charts provide terrain contours, hydrographic, topographic, cultural and other visual features compatible with legibility at the scale of the chart - this information is supplied by Ordnance Survey Ireland and/or Ordnance Survey Northern Ireland.

4.0.2.3 4.2.3 Instrument Approach Chart – ICAO

These charts are designed to provide the pilot with a graphic presentation of the Instrument Approach, Missed Approach and Holding Procedures and to facilitate the transition from non-visual to visual flight at any point on the final approach.

4.0.2.4 4.2.4 Visual Approach Chart – ICAO

These charts are designed to assist pilots making a visual approach and to provide pilots with designated holding patterns maintained by visual reference to the ground.

4.0.2.5 4.2.5 Aerodrome Chart – ICAO

These charts provide flight crew with detailed information on runways, taxiways, lighting and other aerodrome features to facilitate the surface movement of aircraft.

4.0.2.6 4.2.6 Aerodrome Obstacle Chart - ICAO - TYPE “A” (Operating Limitations)

These charts are designed to provide the operator with the data necessary to enable compliance with the operating limitations as contained in ICAO Annex 6.

4.0.2.7 4.2.7 Aerodrome Obstacle Chart - ICAO - TYPE *“B”*

These charts are designed to provide the data necessary or determination of minimum safe altitudes/heights and procedures for use in the event of an emergency during take-off or landing.

4.0.2.8 4.2.8 Precision Approach Terrain Chart – ICAO
These charts provide detailed terrain profile information within a defined portion of the final approach so as to enable aircraft operating agencies to assess the effect of terrain on decision height determination by the use of radio altimeter.

4.0.2.9 4.2.9 ATC Surveillance Minimum Altitude Chart
This Supplementary Chart shall provide information that will enable flight crews to monitor and cross check altitudes assigned by a controller using an ATS surveillance system.

5. LIST OF CHART SERIES

Title of series and Scale	Series	Chart Ref	Chart name and/or Number	Date
Aeronautical Chart ICAO 1:500,000	ANC/ 500	Edition 12	Ireland Sheet 2172 ABCD	24 FEB 2022
Aeronautical Chart/West 1:250,000	ANC/ 250	Edition 09	Ireland Sheet 2172 ABCD	24 FEB 2022
Aeronautical Chart/East 1:250,000	ANC/ 250	Edition 09	Ireland Sheet 2172 ABCD	24 FEB 2022
Aeronautical Chart/North 1:250,000	ANC/ 250	Edition 09	Ireland Sheet 2172 ABCD	24 FEB 2022
Aeronautical Chart/South 1:250,000	ANC/ 250	Edition 09	Ireland Sheet 2172 ABCD	24 FEB 2022
Standard Departure Chart-Instrument (SID) ICAO 1:750,000	SID	EIDW AD 2.24-10.1	EIDW RNAV RWY 28L CAT A,B	05 NOV 2020
	SID	EIDW AD 2.24-11.1	EIDW RNAV RWY 28L CAT C, D	08 SEP 2022
	SID	EIDW AD 2.24-12.1	EIDW RNAV RWY 28R CAT A,B	06 OCT 2022
	SID	EIDW AD 2.24-13.1	EIDW RNAV RWY 28R CAT C,D	20 APR 2023
	SID	EIDW AD 2.24-14.1	EIDW RNAV RWY 10L CAT A,B	06 OCT 2022
	SID	EIDW AD 2.24-15.1	EIDW RNAV RWY 10L CAT C,D	20 APR 2023
	SID	EIDW AD 2.24-16.1	EIDW RNAV RWY 10R CAT A, B	11 AUG 2022
	SID	EIDW AD 2.24-17.1	EIDW RNAV RWY 10R CAT C, D	16 JUN 2022
	SID	EIDW AD 2.24-18.1	EIDW RNAV RWY 16 CAT A, B	05 NOV 2020
	SID	EIDW AD 2.24-19.1	EIDW RNAV RWY 16 CAT C, D	06 OCT 2022
	SID	EIDW AD 2.24-20.1	EIDW RNAV RWY 34 CAT A, B	05 NOV 2020
	SID	EIDW AD 2.24-21.1	EIDW RNAV RWY 34 CAT C, D	06 OCT 2022
	SID	EIKY AD 2.24-3	EIKY RWY 26 CAT A, B	25 MAR 2021
	SID	EIKY AD 2.24-4	EIKY RWY 26 CAT C	25 MAR 2021
	SID	EIKY AD 2.24-5	EIKY RWY 08 CAT A, B	25 MAR 2021
	SID	EIKY AD 2.24-6	EIKY RWY 08 CAT C	25 MAR 2021
	SID	EINN AD 2.24-5.1	EINN RNAV RWY 06	31 JAN 2019
	SID	EINN AD 2.24-6.1	EINN RNAV RWY 24	31 JAN 2019

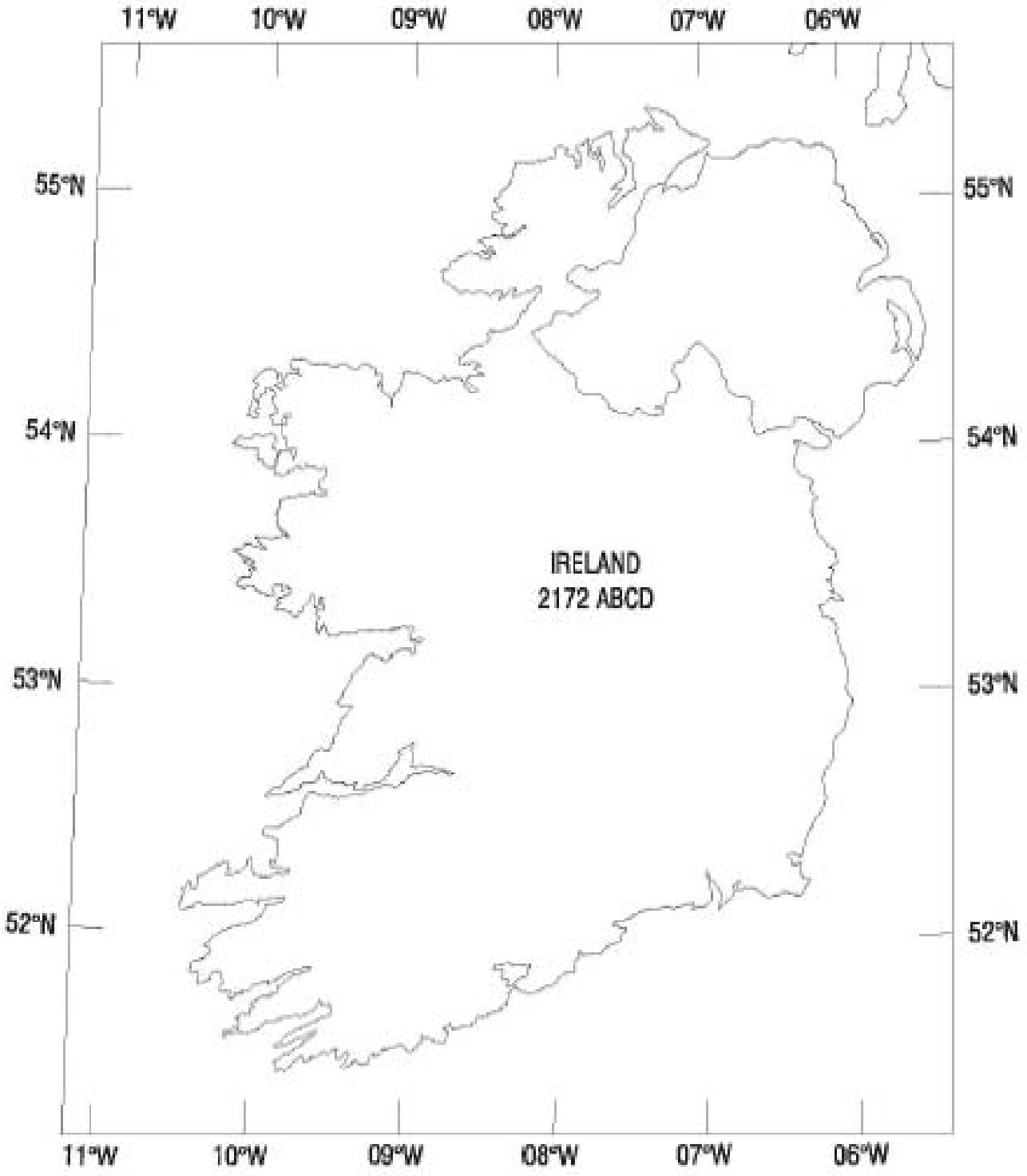
Title of series and Scale	Series	Chart Ref	Chart name and/or Number	Date
Standard Departure Chart-Instrument (SID) ICAO 1:600,000	SID	EICK AD 2.24-6	EICK RNAV (GNSS) RWY 16 CAT A, B,	26 APR 2018
	SID	EICK AD 2.24-7	EICK RNAV (GNSS) RWY 16 CAT C, D,	26 APR 2018
	SID	EICK AD 2.24-8	EICK RNAV (GNSS) RWY 34 CAT A, B,	26 APR 2018
	SID	EICK AD 2.24-9	EICK RNAV (GNSS) RWY 34 CAT C, D,	26 APR 2018
	SID	EICK AD 2.24-10	EICK RNAV (GNSS) RWY 07 CAT A, B,	26 APR 2018
	SID	EICK AD 2.24-11	EICK RNAV (GNSS) RWY 07 CAT C, D,	26 APR 2018
	SID	EICK AD 2.24-12	EICK RNAV (GNSS) RWY 25 CAT A, B,	26 APR 2018
	SID	EICK AD 2.24-13	EICK RNAV (GNSS) RWY 25 CAT C, D,	26 APR 2018
Standard Departure Chart-Instrument (SID) ICAO 1:300,000	SID	EIKN AD 2.24-4	EIKN RNAV RWY26	13 SEP 2018
	SID	EIKN AD 2.24-5	EIKN RNAV RWY08	13 SEP 2018
Standard Arrival Chart-Instrument (STAR) ICAO 1:750,000	STAR	EIDW AD 2.24-22.1	EIDW RNAV RWY 28L/R (With Lateral Holding/Point Merge)	06 OCT 2022
	STAR	EIDW AD 2.24-22.4	EIDW RNAV RWY 28L/R (Without Lateral Holding/Point Merge)	06 OCT 2022
	STAR	EIDW AD 2.24-23.1	EIDW RNAV RWY 10L/R (with Lateral Holding/Point Merge)	06 OCT 2022
	STAR	EIDW AD 2.24-23.5	EIDW RNAV RWY 10L/R (Without Lateral Holding/Point Merge)	06 OCT 2022
	STAR	EIDW AD 2.24-24.1	EIDW RNAV RWY 16	08 OCT 2020
	STAR	EIDW AD 2.24-25.1	EIDW RNAV RWY 34	08 OCT 2020
	STAR	EINN AD 2.24-7.1	EINN RNAV RWY 06	31 JAN 2019
	STAR	EINN AD 2.24-8.1	EINN RNAV RWY 24	06 DEC 2018
Standard Arrival Chart-Instrument (STAR) ICAO 1:600,000	STAR	EICK AD 2.24-14	EICK RWY 16	11 OCT 2018
	STAR	EICK AD 2.24-15	EICK RWY 34	26 APR 2018
	STAR	EICK AD 2.24-16	EICK RWY 07 CAT A, B	26 APR 2018
	STAR	EICK AD 2.24-17	EICK RWY 25 CAT A, B	11 OCT 2018
Standard Arrival Chart-Instrument (STAR) ICAO 1:400,000	STAR	EIKN AD 2.24-7	EIKN RNAV RWY08	20 JUL 2017
Standard Arrival Chart-Instrument (STAR) ICAO 1:300,000	STAR	EIKN AD 2.24-6	EIKN RNAV RWY26	18 AUG 2016
Instrument Approach Chart ICAO 1: 500,000	IAC	EIDW AD 2.24-38	EIDW RNP RWY 16 CAT A, B, C, D	17 JUN 2021
	IAC	EIDW AD 2.24-39.1	EIDW ILS CAT I or LOC RWY 16	08 OCT 2020
	IAC	EIDW AD 2.24-40.1	EIDW VOR RWY 16	08 OCT 2020
	IAC	EIDW AD 2.24-41	EIDW RNP RWY 34	17 JUN 2021
	IAC	EIDW AD 2.24-42.1	EIDW VOR RWY 34	08 OCT 2020

Title of series and Scale	Series	Chart Ref	Chart name and/or Number	Date
Instrument Approach Chart ICAO 1:450,000	IAC	EIDW AD 2.24-27.1	EIDW ILS CAT I & II or LOC RWY 28L CAT A,B,C,D	11 AUG 2022
Instrument Approach Chart ICAO 1: 400,000	IAC	EIKN AD 2.24-8.1	EIKN RNP RWY26 CAT A, B, C, D	08 SEP 2022
	IAC	EIKN AD 2.24-14	EIKN RNP RWY08 CAT A, B, C, D	25 MAR 2021
	IAC	EIDW AD 2.24-35.1	EIDW RNP RWY 10R CAT A, B, C, D	01 DEC 2022
Instrument Approach Chart ICAO 1:350,000	IAC	EINN AD 2.24-10.1	EINN ILS OR LOC RWY 06 CAT A,B,C,D	06 DEC 2018
	IAC	EINN AD 2.24-11.1	EINN VOR RWY 26 CAT A, B, C, D	06 DEC 2018
	IAC	EINN AD 2.24-13.1	EINN ILS CAT I & II or LOC RWY 24 CAT A, B, C, D	06 DEC 2018
	IAC	EINN AD 2.24-14.1	EINN VOR RWY 24 CAT A, B, C, D	06 DEC 2018
	IAC	EIKY AD 2.24-8	EIKY ILS OR LOC RWY 26 ACFT CAT A, B, C	08 DEC 2016
	IAC	EIKY AD 2.24-9	EIKY NDB RWY 26 CAT A,B,C	08 DEC 2016
	IAC	EIKN AD 2.24-9	EIKN ILS A CAT I & CAT II or LOC RWY26	18 AUG 2016
	IAC	EIKN AD 2.24-11	EIKN VOR RWY26	18 AUG 2016
	IAC	EIKN AD 2.24-15	EIKN VOR RWY08	18 AUG 2016
	IAC	EIKN AD 2.24-16	EIKN NDB RWY08	18 AUG 2016
	IAC	EIKN AD 2.24-17	EIKN NDB RWY08	18 AUG 2016
	IAC	EICK AD 2.24-25.1	EICK VOR RWY 07	08 SEP 2022
	IAC	EICK AD 2.24-27.1	EICK VOR RWY 25	08 SEP 2022
	IAC	EIDL AD 2.24-7.1	EIDL RNP RWY 02 CAT A,B,C	30 NOV 2023
	IAC	EIDL AD 2.24-9.1	EIDL RNP RWY 20 CAT A,B,C	30 NOV 2023
	IAC	EIDW AD 2.24-26.1	EIDW RNP RWY 28L	11 AUG 2022
	IAC	EIDW AD 2.24-28.1	EIDW VOR RWY 28L	08 OCT 2020
	IAC	EIDW AD 2.24-29.1	EIDW RNP RWY 28R CAT A, B, C, D	01 DEC 2022
	IAC	EIDW AD 2.24-30.1	EIDW ILS CAT I AND II OR LOC RWY 28R CAT A,B,C,D	06 OCT 2022
	IAC	EIDW AD 2.24-32.1	EIDW RNP RWY 10L	01 DEC 2022
	IAC	EIDW AD 2.24-33.1	EIDW ILS CAT I & II OR LOC RWY 10L CAT A,B,C,D	06 OCT 2022
	IAC	EIDW AD 2.24-36.1	EIDW ILS CAT I & II or LOC RWY 10R CAT A,B,C,D	06 OCT 2022
	IAC	EIDW AD 2.24-37.1	EIDW VOR RWY 10R	08 OCT 2020
	IAC	EIDW AD 2.24-45	EIDW VOR T RWY 28L CAT A, B, C, D	21 APR 2022
	IAC	EISG AD 2.24-7.1	EISG RNP Y RWY 10 CAT A, B	22 APR 2021
	IAC	EISG AD 2.24-8.1	EISG RNP Z RWY 10 CAT A, B	22 APR 2021
	IAC	EISG AD 2.24-9.1	EISG NDB Y RWY 10 CAT A, B	22 APR 2021
	IAC	EISG AD 2.24-10.1	EISG NDB Z RWY 10 CAT A, B	22 APR 2021
	IAC	EISG AD 2.24-11.1	EISG RNP RWY 28 CAT A, B	22 APR 2021

Title of series and Scale	Series	Chart Ref	Chart name and/or Number	Date
	IAC	EISG AD 2.24-12.1	EISG NDB RWY 28 CAT A, B	22 APR 2021
	IAC	EIWF AD 2.24-8.1	EIWF RNP RWY 02 CAT A,B,C	30 NOV 2023
	IAC	EIWF AD 2.24-9.1	EIWF RNP RWY 20 CAT A,B,C	30 NOV 2023
Instrument Approach Chart ICAO 1: 330,000	IAC	EIDL AD 2.24-3	EIDL LOC RWY 21	05 APR 2012
	IAC	EIDL AD 2.24-4	EIDL NDB RWY 21	05 APR 2012
	IAC	EIDL AD 2.24-5	EIDL NDB RWY 03	05 APR 2012
	IAC	EIKN AD 2.24-10	EIKN ILS B CAT I & CAT II RWY26	28 APR 2016
	IAC	EIKN AD 2.24-12	EIKN NDB RWY26	28 APR 2016
	IAC	EIKN AD 2.24-13	EIKN NDB RWY26	28 APR 2016
	IAC	EIWF AD 2.24-3	EIWF ILS CAT 1 OR LOC RWY 21 CAT A,B,C	20 JUL 2017
	IAC	EIWF AD 2.24-5	EIWF NDB/DME RWY 21	30 OCT 2003
	IAC	EIWF AD 2.24-6	EIWF NDB RWY 03 CAT A, B, C	08 DEC 2016
Instrument Approach Chart ICAO 1:300,000	IAC	EICK AD 2.24-18	EICK RNP RWY 16	11 OCT 2018
	IAC	EICK AD 2.24-19.1	EICK ILS CAT I & II or LOC RWY 16	11 OCT 2018
	IAC	EICK AD 2.24-20	EICK VOR RWY 16	11 OCT 2018
	IAC	EICK AD 2.24-21	EICK RNP RWY 34	11 OCT 2018
	IAC	EICK AD 2.24-22	EICK ILS CAT I or LOC RWY 34	11 OCT 2018
	IAC	EICK AD 2.24-23	EICK VOR RWY 34	11 OCT 2018
	IAC	EICK AD 2.24-24	EICK RNP RWY 07	31 JAN 2019
	IAC	EICK AD 2.24-26	EICK RNP RWY 25 (LNAV Only)	11 OCT 2018
Instrument Approach Chart ICAO 1:250,000	IAC	EIKY AD 2.24-7	EIKY RNP RWY 26 CAT A, B, C	25 MAR 2021
	IAC	EIKY AD 2.24-10	EIKY RNP RWY 08 CAT A, B, C	20 MAY 2021
	IAC	EIKY AD 2.24-11	EIKY NDB RWY 08 CAT A, B, C	26 MAY 2016
Visual Approach Chart ICAO 1: 250,000	VAC	EICK AD 2.24-28	CORK	10 SEP 2020
	VAC	EIDL AD 2.24-15	DONEGAL	20 APR 2023
	VAC	EIKN AD 2.24-19	IRELAND WEST/KNOCK	20 MAY 2021
	VAC	EIKY AD 2.24-13	KERRY	25 MAR 2021
	VAC	EINN AD 2.24-15	SHANNON	10 SEP 2020
	VAC	EISG AD 2.24-16	SLIGO	23 MAR 2023
	VAC	EIWF AD 2.24-7	WATERFORD	23 MAR 2023
Visual Approach Chart ICAO 1: 160,000	VAC	EIDW AD 2.24-44	DUBLIN	22 APR 2021
Aerodrome Chart ICAO 1: 25,000	AD	EICK AD 2.24-1	CORK	08 NOV 2018
	AD	EINN AD 2.24-1	SHANNON	26 MAR 2020
Aerodrome Chart ICAO 1: 20,000	AD	EIKN AD 2.24-1	IRELAND WEST	20 MAY 2021
	AD	EIKY AD 2.24-1	KERRY	20 MAY 2021
Aerodrome Chart ICAO 1: 15,000	AD	EIDL AD 2.24-1	DONEGAL	28 MAR 2019
	AD	EIWF AD 2.24-1	WATERFORD	30 OCT 2003

Title of series and Scale	Series	Chart Ref	Chart name and/or Number	Date
	AD	EIWT AD 2.24-1	WESTON	07 JUN 2007
	AD	EISG AD 2.24-1	SLIGO	28 JAN 2021
Aerodrome Chart ICAO As per Published Chart	AD	EIDW AD 2.24-1	DUBLIN	02 NOV 2023
Aerodrome Obstacle Chart ICAO – Type "A" Horizontal Scale 1:10,000 Vertical Scale 1:1,000	AOC	EICK AD 2.24-3	EICK RWY 07/25	26 APR 2018
	AOC	EICK AD 2.24-4	EICK RWY 16/34	26 APR 2018
	AOC	EIDL AD 2.24-2	EIDL RWY 03/21	28 JUN 2012
	AOC	EIDW AD 2.24-3	EIDW RWY 10R/28L	08 OCT 2020
	AOC	EIDW AD 2.24-4	EIDW RWY 10L/28R	11 AUG 2022
	AOC	EIDW AD 2.24-5	EIDW RWY 16/34	08 OCT 2020
	AOC	EIKN AD 2.24-2	EIKN RWY 08/26	18 AUG 2016
	AOC	EIKY AD 2.24-2	EIKY RWY 08/26	09 APR 2009
	AOC	EINN AD 2.24-4	EINN RWY 06/24	28 SEP 2006
	AOC	EISG AD 2.24-2	EISG RWY 10/28	28 JAN 2021
	AOC	EIWF AD 2.24-2	EIWF RWY 03/21	30 OCT 2003
Aerodrome Obstacle Chart ICAO – Type "B"	AOC	EICK/Type B/Ver 1	EICK	-
	AOC	EIDL/Type B/Ver 1	EIDL	-
	AOC	EIDW/Type B/Ver 1	EIDW	-
	AOC	EIKN/Type B/Ver 1	EIKN	-
	AOC	EIKY/ Type B/Ver 1	EIKY	-
	AOC	EINN/Type B/Ver 1	EINN	-
	AOC	EISG/Type B/Ver 1	EISG	-
	AOC	EIWF/Type B/Ver 1	EIWF	-
Precision Approach Terrain Chart Horizontal Scale 1:2,500 Vertical Scale 1:500	PATC	EICK AD 2.24-5	EICK RWY 16	26 APR 2018
	PATC	EIDW AD 2.24-6	EIDW RWY 28L	08 OCT 2020
	PATC	EIDW AD 2.24-7	EIDW RWY 28R	11 AUG 2022
	PATC	EIDW AD 2.24-8	EIDW RWY 10L	11 AUG 2022
	PATC	EIDW AD 2.24-9	EIDW RWY 10R	25 FEB 2021
	PATC	EIKN AD2.24-3	EIKN RWY 27	21 MAR 2002
	PATC	EINN AD 2.24-3	EINN RWY 24	06 DEC 2018
Aircraft Parking/Docking Chart – ICAO 1:5,000	APDC	EICK AD 2.24-2	CORK	26 APR 2018
	APDC	EINN AD 2.24-2	SHANNON	25 APR 2019
Aircraft Parking/Docking Chart – ICAO 1:6,000	APDC	EIDW AD 2.24-2	DUBLIN	02 NOV 2023
ATC Surveillance Minimum Altitude Chart - ICAO 1:850,000		EIDW AD 2.24-43.1	DUBLIN	01 DEC 2022
ATC Surveillance Minimum Altitude Chart - ICAO 1:700,000		EINN AD 2.24-16	SHANNON	17 JUN 2021
ATC Surveillance Minimum Altitude Chart - ICAO 1:600,000		EICK AD 2.24-29.1	CORK	25 MAR 2021

6. INDEX TO WORLD AERONAUTICAL CHARTS – ICAO 1:500,000



7. TOPOGRAPHICAL CHARTS

Refer to GEN 3.2.3

8. CORRECTIONS TO CHARTS NOT CONTAINED IN THE AIP

Chart	Location	Correction
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/North ICAO 1:250,000 Ed 9	544214.17N 0081643.18W	Donegal, Clogheravaddy Windfarm Phase 2 (+3 turbines), Height: 416ft Elevation: 1180ft (No Change)
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/West ICAO 1:250,000 Ed 9	541013.50N 0092947.44W	Mayo, Oweninny Wind Farm, Phase 2(+31 turbines), Height: 578ft Elevation: 949ft (No Change)
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/South ICAO 1:250,000 Ed 9	513846.74N 0095418.92W	Castletownbere Lighthouse, Correction to both Height: 20ft and Elevation: 29ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	531747.96N 0070656.88W	Offaly, Cloncreen Wind Farm, Height: 558ft Elevation: 791ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	531536.28N 0071841.95W	Offaly, Garryhinch Bog Mast, Clonyhurk, Height: 328ft Elevation: 584ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	533742.05N 0070135.65W	Westmeath, Clonmellon Airstrip, Elevation: 85ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	535657.94N 0065302.25W	Cavan, Taghart Wind Farm, Height: 411ft Elevation: 1283ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	525912.77N 0072051.33W	Laois, Colt Met Mast, Height: 328ft Elevation: 722ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/West ICAO 1:250,000 Ed 9	532139.32N 0091833.45W	Galway, Ardderroo Wind Farm, Height: 582ft Elevation: 1267ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	533636.30N 0061600.89W	Tobertaskin Airstrip decommission, Dublin.
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	525107.93N 0065549.93W	Carlow, Limekiln at old Irish Sugar Factory Site, Height: 201ft Elevation: 380ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	531222.60N 0075147.75W	Offaly, Cloghan Wind Farm, Height: 555ft Elevation: 752ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	531220.52N 0071557.96W	Offaly, Moanvane Windfarm, Height: 550ft Elevation: 806ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/South ICAO 1:250,000 Ed 9		Lough Currane, Co. Kerry. Position: 514952.35N 0100729.24W
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	532745.55N 0064039.32W	Meath, Summerhill Mast Removed, Height: 818ft Elevation: 1160ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	531642.19N 0072218.72W	Offaly, Ballingar Mast Removed, Height: 980ft Elevation: 1222ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	532742.06N 0064026.93W	Meath, Existing Summerhill Mast in place, Height: 97ft Elevation: 436ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/North ICAO 1:250,000 Ed 9	540811.26N 0071015.90W	Monaghan, Drumlins Wind Farm, Height: 591ft Elevation: 1060ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	530218.47N 0071707.51W	EIP8-Laois, Portlaoise Prison, Lat/Long Updated, Position: 530218.47N 0071707.51N, Height: GND, Elevation: 5000ft, Radius: 2NM
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/West ICAO 1:250,000 Ed 9	541957.60N 0081516.80W	Sligo, Unlit Mast, Height: 300ft Elevation: 1137ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/South ICAO 1:250,000 Ed 9		Cork, Glounthaune to Midleton Railway lines, Depiction of Railway Lines, Start Position: 515438.01N 0081921.47W Finish Position: 515516.05N 0081024.91W

Chart	Location	Correction
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/West ICAO 1:250,000 Ed 9	541144.54N 0093502.24W	Mayo, Sheskin Wind Farm, Height: 578ft Elevation: 985ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	532528.00N 0075652.00W	NEW EIR24-Westmeath, Custume Barracks, Athlone, Height: SFC, Elevation: 2000ft, Radius: 2NM
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/North ICAO 1:250,000 Ed 9	545322.50N 0075131.18W	Donegal, Lenalea Wind Farm, Height: 438ft Elevation: 1398ft
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/West ICAO 1:250,000 Ed 9	525936.30N 0092221.70W	Clare, Doonagore, Doolin, Lighted Mast added, Height: 148ft Elevation: 680ft
Aeronautical Chart ICAO 1:500,000 Ed 12	543830.24N 0061738.70W	Belfast Aldergrove and Langford Lodge Airfield Information Text incorrect on the 1/500,000 series chart
Aeronautical Chart ICAO 1:500,000 Ed 12 Aeronautical Chart/East ICAO 1:250,000 Ed 9	531913.9315N 0070302.3814W, 531723N 0070415W, 531333N 0070330W, 531219.2491N 0070021.6357W, Arc centre/EICL 531459N 0070724W, Radius of 5 nm	Clonbullogue (EICL) Parachute Area Revised Height: SFC Elevation: 4500ft

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES

1. FLIGHT OF MANNED FREE BALLOONS IN SHANNON FIR

Navigation of manned free balloons in the Shannon FIR shall be subject to the following conditions:

1.1 Flights in controlled airspace require a specific written permission from the Authority and the balloon must be transponder equipped.
Flights in uncontrolled airspace only require a flight plan to be filed and no transponder is required.

1.2 Flights shall be made only in accordance with the Visual Flight Rules and by day.

1.3 Flights shall not be made if the operating characteristics of the balloon and the actual and forecast wind indicate that there is any risk of entry into controlled airspace.

1.4 Flights shall be made only in accordance with the permission and any conditions attached thereto.

1.4.1 Permission should be sought, in writing from:

Post: Flight Operations Department,
The Irish Aviation Authority,
The Times Building,
11-12 D'Olier Street
Dublin 2
Ireland

1.4.2 For flights within the State, application for permission shall be made at least seven days before the intended flight.

1.4.3 For flights entering or leaving the State, application for permission shall be made at least fourteen days before the intended flight and shall be accompanied by a copy of a letter of authorization from the State of departure of the State of intended landing, as appropriate.

1.4.4 Applications for permission shall include the following information:

- Type of flight e.g. VFR (local or international)
- Identification of balloon (registration mark)
- Place of ascent (co-ordinates)
- Date and intended time (UTC) of ascent
- Type, diameter, shape and colour of balloon
- Estimated elapsed time of flight
- Altitude (maximum en route)
- Rate of ascent (normal and maximum)
- Estimated track (magnetic)
- Place of intended landing
- Type, make, effective range and available frequencies of radio air/ground communication equipment
- Details of radio and other navigation equipment
- Endurance (Hours)
- Emergency and survival equipment
- Name of pilot in command
- Number of persons on board
- Name, address and telephone number operator.

1.4.5 For flights leaving the State an ATC Flight Plan, repeating the information detailed in ENR 1.4.4 shall be filed with the appropriate ATC unit at least 24HR before the estimated time of departure.

1.4.6 Permission for a series of flights may be given subject to arrangements acceptable to the Authority.

1.5 Notification to ATC

1.5.1 Intention to operate a flight, or a series of flights in the State within a single day, shall be notified by telephone to the appropriate ATC unit at least one hour before the intended time of departure.

1.5.2 In the case of flights leaving the State, the time of departure shall be notifies to the appropriate ATC unit as soon as possible after take-off.

1.5.3 Completion of the flight or series of flights within a single day shall be notified to the appropriate ATC unit.

2. OPERATION OF TETHERED BALLOONS WITHIN THE SHANNON FIR

2.1 This section is applicable to any balloon that is tethered to the surface of the earth or an object thereon and that exceeds 6 feet in any linear dimension or a gas capacity of more than 115 cubic feet.

2.2 All applications to operate such balloons must be made to the Flight Operations Department of the Irish Aviation Authority on the appropriate application form. Forms can be obtained from

Post: The Irish Aviation Authority,
The Times Building,
11-12 D'Olier Street
Dublin 2
Ireland

Phone: +353 1 603 1540

Fax: +353 1 677 4460

2.3 All completed application forms must be forwarded to the IAA not less than 14 days prior to the proposed operation.

3. FLIGHT OF UNMANNED FREE BALLOONS WITHIN THE SHANNON FIR

Flight of unmanned free balloons in the Shannon FIR shall be subject to the following conditions:

3.1 Unmanned free balloons exceeding two metres in any linear dimension at any stage of their flight shall not be flown within the Shannon FIR except with the prior permission of the appropriate authority.

3.2 Permission should be sought from the Flight Operations Department,

Post: The Irish Aviation Authority,
The Times Building,
11-12 D'Olier Street
Dublin 2
Ireland

3.3 The foregoing conditions do not apply to unmanned balloons used by Meteorological Services for the purposes of upper air observations.

4. SMALL UNMANNED AIRCRAFT (DRONES) - INCLUDING MODEL RC AIRCRAFT

4.1 Small Unmanned Aircraft/Drone/RC Model information for recreational and aerial work is available from the following non-regulatory bodies:
Note: The Irish Aviation Authority is not responsible for the content of the website(s) listed below.
Model Aircraft council of Ireland (MACI) http://www.maci.ie
Unmanned Aircraft Association of Ireland http://www.uaai.ie

4.2 The Irish Aviation Authority recommends Drone operators have public liability insurance to cover the operation of the intended flight activity.

4.3 Small Unmanned Aircraft/Drones shall not be operated higher than 50ft (15m) above ground level within Controlled Airspace without a Specific Operating Permission issued by the Authority or at MACI locations listed in ENR 5.5.6.2 Model Aircraft Flying

4.4 Small aircraft which weigh more than 25kg shall not be flown except with the permission of the IAA and in accordance with any conditions specified in relation to such permission.

4.5 Nothing shall be dropped from a Small Unmanned Aircraft/Drone, whether or not attached to a parachute, so as to endanger persons or property.

4.6 Applications for Specific Operating Permissions, Pilot Competency Certificates, Special Approvals and additional compliance guidance information is available in the General Aviation Section at the Irish Aviation Authority website http://www.iaa.ie

Note: A Pilot Competency Certificate(s) is required to fly a Small Unmanned Aircraft/Drone as a component to a Specific Operating Permission

4.7 Small Unmanned Aircraft/Drones equal to or greater than 1kg are required to be registered with the Irish Aviation Authority Ref AN-U01.
Small Unmanned Aircraft/Drones less than 1kg maximum weight, constructed of wood, paper or frangible plastic and containing no substantial parts when operated below 15m above the ground or water and in a manner that does not create a hazard to persons, property or other aircraft are not subject to the Small unmanned Aircraft (Drones) & Rockets Order SI 563 of 2015, Aeronautical Notices & Directions unless specifically stated.(ENR 5.5.4.8)

4.8 Small Unmanned Aircraft (Drones) & Rockets Order Statutory Instrument 563 of 2015 (*excerpt of legal text*):

1. Aircraft subject to this order shall be required to be registered in a manner established by the Authority.

2. A person who has charge of the operation of a small unmanned aircraft shall not permit that aircraft to be operated:

   a. so as to cause a hazard to another aircraft; or

   b. in the vicinity of aircraft manoeuvring in an aerodrome traffic circuit;

   c. in a negligent or reckless manner so as to endanger life or cause damage to the property of others.

3. Small unmanned aircraft shall give way to manned aircraft.

4. The Authority may define areas within Air Traffic Services airspace, where small Unmanned Aircraft/Drones activity may take place.

5. A person who has charge of the operation of a small unmanned aircraft which has a mass of less than 25 kilograms, without fuel but including any articles or equipment installed in or attached to the aircraft and including cargo at the commencement of its flight shall not allow such an aircraft to be flown, unless otherwise permitted by the Authority and subject to such conditions as are required by such permission:

   a. within a prohibited area, a restricted area, or controlled airspace;

   b. in Air Traffic Services airspace, other than controlled airspace, within 5km of an aerodrome during periods of aircraft operations, unless the aerodrome operator has given permission;

   c. at a distance of less than 30 metres from a person, vessel, vehicle or structure not under the direct control of the operator;

   d. at a distance of less than 120 metres from an assembly of 12 or more persons not under the direct control of the operator;

   e. beyond direct, unaided visual line of sight and not farther than 300 metres from the point of operation;

   f. at a height of more than 120 metres above the ground or water;

   g. permitting or attempting to permit, any article or animal, whether or not attached to a parachute to be released from the aircraft.

6. A person who has charge of the operation of a small unmanned aircraft shall not permit such aircraft to be

operated from any place unless the aircraft may take-off and land without undue hazard to persons or property and nothing in this order shall affect the rights and interests of the owner or occupier of that place.

7. A person who has charge of the operation of a small unmanned aircraft, which has a mass of 4 kilograms or more and less than 25 kilograms, without fuel but including any articles or equipment installed in or attached to the aircraft and including cargo at the commencement of its flight, or as otherwise directed by the Authority, shall not allow such an aircraft to be flown unless that person has successfully undertaken a course of safety training accepted by the Authority.

8. A person who has charge of the operation of a small unmanned aircraft which has a mass of 25 kilograms, or more and less than 150 kilograms, without fuel but including any articles or equipment installed in or attached to the aircraft and including cargo at the commencement of its flight, shall not allow such an aircraft to be flown without the permission of the Authority and subject to such conditions as are required by such permission.

9. Permissions issued in accordance with this order may take the form of Specific Operating Permission.

"*End of Excerpt*"

5. KITE FLYING WITHIN THE SHANNON FLIGHT INFORMATION REGION

5.1 Except with the permission of the appropriate, authority, and in accordance with any conditions subject to which that permission may be granted, a kite shall not be flown within the Shannon Flight Information Region:

1. within 5km of an aerodrome,
   Or
2. Elsewhere within that Region at a height of more than 200ft above ground level.

5.2 Permission should be sought from:

Post: Flight Operations Department,
The Irish Aviation Authority,
The Times Building,
11-12 D'Olier Street
Dublin 2
Ireland

6. ROUTINE LIGHT AVIATION SPORTING ACTIVITIES

6.1 Introduction

Aerial Sporting and Recreational Activity areas, as described in the following sections, are not designated airspaces but show the delineation of airspace established to identify areas within which frequent aviation activities are conducted.

The purpose of this section is to bring to the attention of those airspace users, operating in uncontrolled airspace, information on light aviation sporting activities which take place on a routine basis within the Shannon FIR. Routine activities which have been notified to the Irish Aviation Authority will not be brought to the attention of airspace users by way of the flight information service (FIS) provided by ATS units, as details of any such activities are published in AIP Ireland. However, non-routine activities which are notified to ATS will be brought to the attention of those airspace users, who might be affected, by means of the FIS of the appropriate ATS unit. It should be borne in mind that various light aviation activities take place in the FIR which are not notified to ATS and in these cases, obviously, the FIS unit concerned will be unable to provide details of the activity.

6.2 Details of Routine Activity

The following light aviation sporting activities take place on a regular basis within the Shannon FIR at the indicated locations:

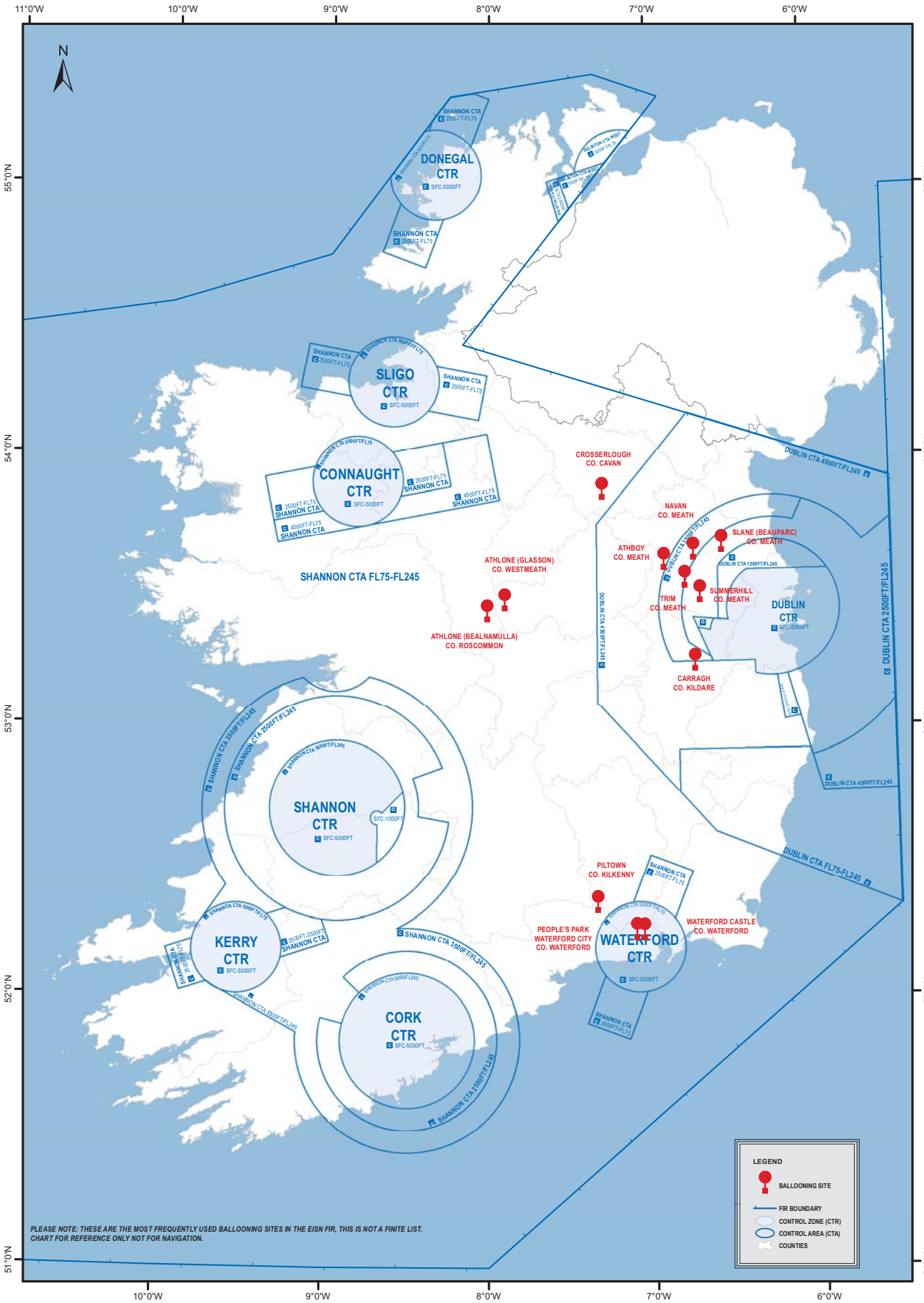
Ballooning
Ballooning takes place in uncontrolled airspace at the following locations:

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Athboy 533723N 0065446W	MAX OPR ALT 3,500ft AMSL.	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours. Licensed Radio Frequency: 122.475 MHz. County Meath
Athlone (Bealnamulla) 532604N 0080037W	MAX OPR ALT 7500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Roscommon
Athlone (Glasson) 532828N 0075410W	MAX OPR ALT 7,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Westmeath
Carragh 531454N 0064336W	MAX OPR ALT 2,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Kildare
Crosserlough 535306N 0071742W	MAX OPR ALT 7,500ft AMSL.	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475MHz County Cavan
Navan 533932N 0064350W	MAX OPR ALT 3,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Meath
Piltown 522123N 0072023W	MAX OPR ALT 7,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Kilkenny
Slane (Beauparc) 534108N 0063310W	MAX OPR ALT 2,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Meath
Summerhill 533004N 0064132W	MAX OPR ALT 2,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Meath
Trim 533321N 0064708W	MAX OPR ALT 3,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Meath
Met Eireann, Valentia Observatory 515618N 0101424W	MAX OPR ALT AMSL TO UNL	URL: www.met.ie Email:	Launch hours are at 1200 and 0000 UTC daily, occasionally at other times between 0600-1800UTC. County Kerry
Waterford Castle 521512N 0070330W	MAX OPR ALT 7,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Waterford

Ballooning
Ballooning takes place in uncontrolled airspace at the following locations:

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Waterford City (People's Park) 521521N 0070617W	MAX OPR ALT 7,500ft AMSL	URL: www.irishballooningassociation.com Email: irishballooningassociation@gmail.com	Daily, during daylight hours, Licensed Radio Frequency: 122.475 MHz County Waterford

BALLOONING SITES



Glider Flying

Glider flying takes place in uncontrolled airspace from the following locations. Occasional operation in controlled airspace will be subject to prior co-ordination with, and approval from, the appropriate ATS unit

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Inch Strand 520815N 0095853W Castlemaine Harbour	Class G airspace SFC - 2500ft AMSL	URL: www.dublinglidingclub.ie Email: dgcinfo@dublinglidingclub.ie	Operation in uncontrolled airspace. Daily, during daylight hours. Contact on 130.400 MHz during operations. County Kerry. Occasionally, operation in controlled airspace in area bounded by straight lines joining the following coordinates: 521247N 0094722W, arc 10NM radius centre 521051N 0093126W, 520320N 0094206W, 520117N 0095149W, 521043N 0095707W. Operation in controlled airspace subject to clearance from ATS Kerry. Contact on 130.400 MHz during operations. County Kerry.
Clonmel Ridge 521953.151N 0073632.654W	Class G airspace	URL: www.dublinglidingclub.ie Email: dgcinfo@dublinglidingclub.ie	Summer: May - September Daily, during daylight hours. Ridge soaring in uncontrolled airspace. Contact on 130.400 MHz during operations. County Waterford
Fermoyle Strand 521448.829N 0100601.225W	Class G airspace	URL: www.dublinglidingclub.ie Email: dgcinfo@dublinglidingclub.ie	Operation in uncontrolled airspace. Daily, during daylight hours. Occasionally, operation in controlled airspace up to 20,000ft AMSL subject to prior co-ordination with, and approval from Shannon ATS. Contact on 130.400 MHz during operations. County Kerry

Glider Flying

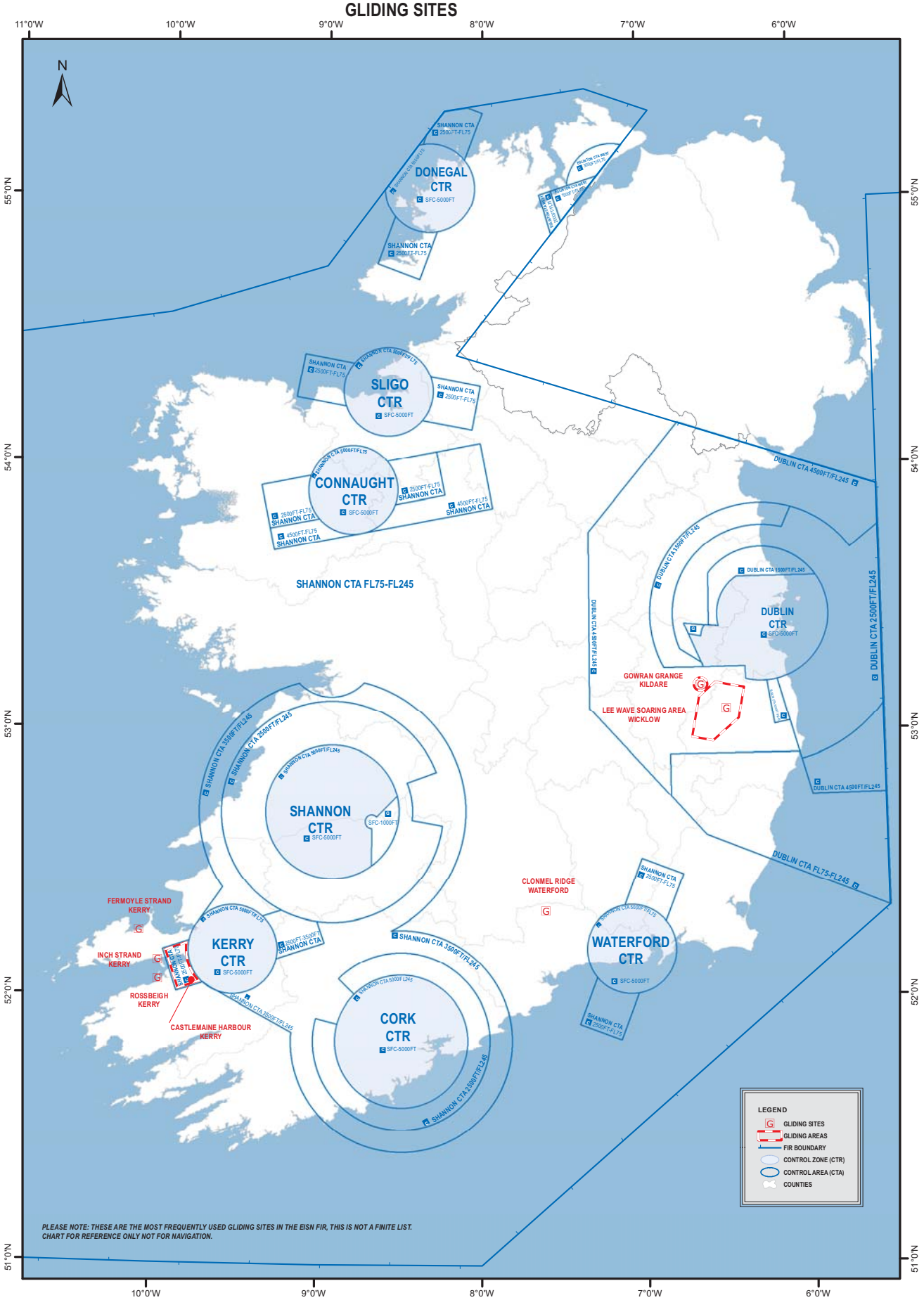
Glider flying takes place in uncontrolled airspace from the following locations. Occasional operation in controlled airspace will be subject to prior co-ordination with, and approval from, the appropriate ATS unit

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Gowran Grange 531034N 0063810W, Lee Wave Soaring Area	SFC - 4500ft AMSL	URL: www.dublinglidingclub.ie Email: dgcinfo@dublinglidingclub.ie	Winter: OCT-APR SAT-SUN & Public Holidays during daylight hours. Summer: MAY-SEP Daily during daylight hours. Contact on 130.400 MHz during operations. County Kildare. 1. Operation in uncontrolled airspace. 2. Occasionally, operation in controlled airspace up to 15,000ft AMSL in the Lee Wave Soaring area bounded by straight lines joining the following coordinates: 530948N 0062155W, 530255N 0062405W, 525755N 0063348W, 525849N 0064140W, 530750N 0063849W, 531102N 0063241W, 3. Operation in controlled airspace subject to prior coordination and approval from ATS Dublin. Contact on 130.400 MHz during operations County Wicklow

Glider Flying
Glider flying takes place in uncontrolled airspace from the following locations. Occasional operation in controlled airspace will be subject to prior co-ordination with, and approval from, the appropriate ATS unit

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Rossbeigh 520357.943N 0095842.182W	Class G airspace	URL: wwww.dublinglidingclub.ie Email: dgcinfo@dublinglidingclub.ie	Late SEP & early OCT Daily, during daylight hours. Operation in uncontrolled airspace within a radius of 15NM centred on the site chosen on the day. Contact on 130.400 MHz during operations. County Kerry

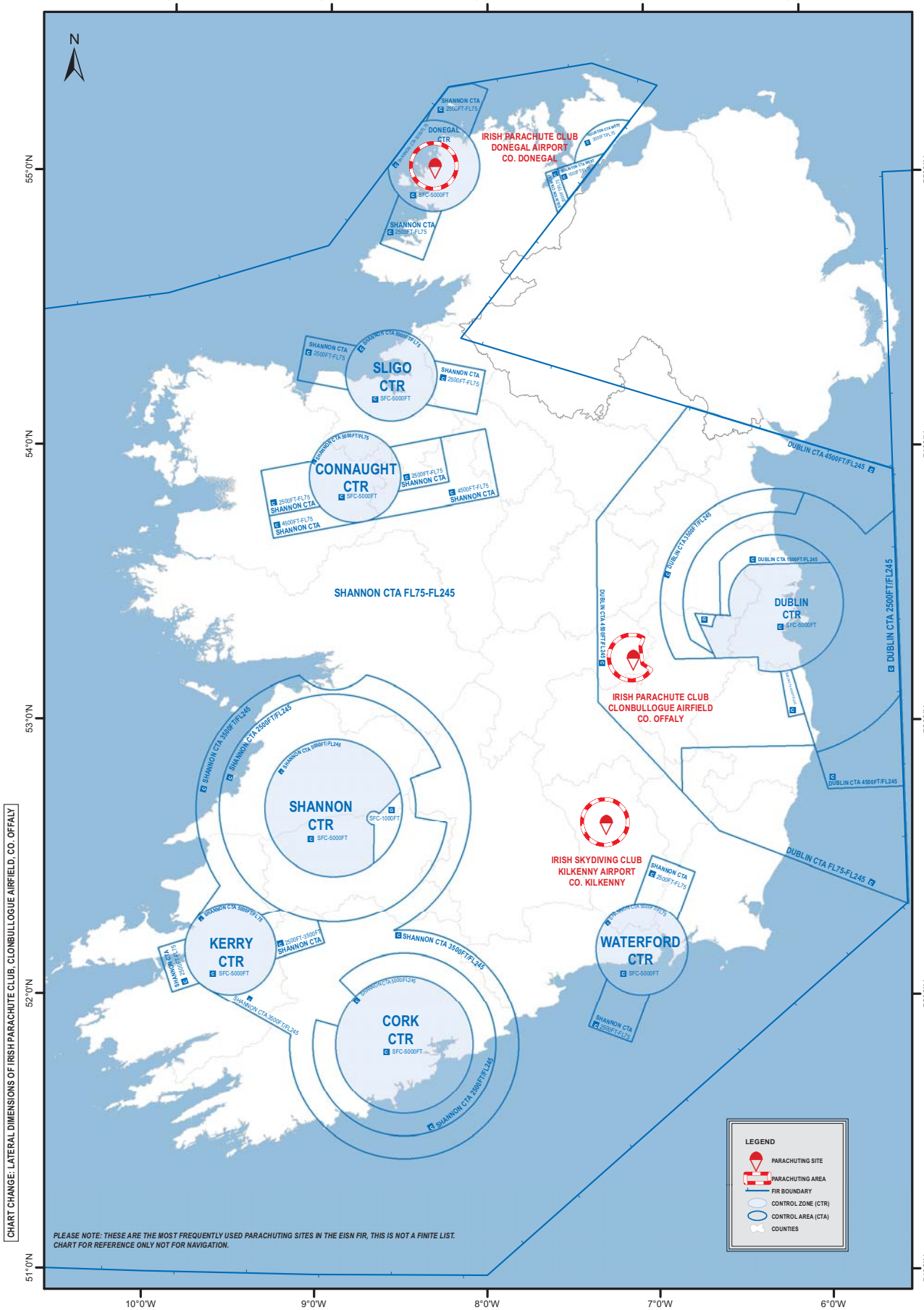
GLIDING SITES



Parachuting
Parachuting takes place at the following locations:

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Clonbullogue (EICL) Airfield Parachuting Area of Operation 531914N 0070302W, 531723N 0070415W, 531333N 0070330W, 531219N 0070022W, arc radius 5nm centred on 531459N 0070724W.	SFC - 4500FT AMSL	Irish Parachute Club Ltd. Phone: 1850 260 600 Email: info@skydive.ie URL: www.skydive.ie	Daily, during daylight hours. This location is within the boundary of Military Restricted Area EIR16 and is subject to the entry requirements of EIR16. If EIR16 is active or becomes active aircraft shall not climb above 2500FT AMSL without establishing contact with Military ATC. For operation above 4500FT AMSL permission must be obtained from Air Traffic Control, Dublin Airport. Post: Clonbullogue Airfield, Edenderry, County Offaly.
Donegal (EIDL) Airport 5.0NM radius centred at: 550239N 0082028W	OPR ALT FL100	Irish Parachute Club Ltd. Phone: 1850 260 600 Email: info@skydive.ie URL: www.skydive.ie	Daily, during daylight hours. This location is within EIDL Controlled Airspace. Parachuting at EIDL Airport is held during the summer months only. Post: Donegal Airport, Carrickfinn, Kincasslagh, County Donegal.
Kilkenny (EIKK) Airport 2.5NM radius centred at: 523903N 0071746W	OPR ALT FL100	Irish Skydiving Club Ltd. Phone: + 353 83 3040024 URL: www.kilkennyairport.ie	Daily during daylight hours. 2.5NM radius of EIKK Aerodrome. Above 4,500ft AMSL is the Military Operating Area (MOA) 3. Above FL075 is Shannon Controlled Airspace. For operation above 4,500ft AMSL: 1. Permission must be obtained from ATC Shannon 2. ATC Shannon must be notified when parachuting is Active. 3. ATC Shannon will advise on any Military activity and requirements. Post: Kilkenny Aerodrome, Holdensrath, County Kilkenny.

PARACHUTING SITES



Hang Gliding Sites & Para Gliding			
Designation and Lateral Limits	**Vertical Limits**	**Operator User No.**	**Remarks**
1	**2**	**3**	**4**
Arra 5NM radius centred on 525046.3N 0082341.2W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Tipperary
Barnageeragh (Skerries) 1NM radius centred on 533540.4N 0060926.6W	1500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Dublin
Ben Bulben 5NM radius centred on 542122.0N 0082719.7W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Sligo. Site located within EISG Controlled Airspace.
Blackstairs Mtns 5NM radius centred on 523323.6N 0064818.0W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wexford
Blackwater 5NM radius centred on 522548.7N 0061938.5W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wexford
Bray Head 1.8NM radius centred on 531057.0N 0060431.3W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
Carrauntoohill 5NM radius centred on 515950.8N 0094438.6W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Kerry
Claragh 1NM radius centred on 520258.1N 0090537.7W	3000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cork
Clermont Cairne 5NM radius centred on 540442.4N 0061918.0W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Louth
Cnoc Mordain 5NM radius centred on 532233.2N 0094235.9W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Galway
Comeragh Mtns. 8.5NM radius centred on 521416.6N 0073326.4W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Waterford
Conor Pass 5NM radius centred on 521047.3N 0101131.8W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Kerry
Croaghmoyle 5NM radius centred on 535534.5N 0092232.0W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Mayo
Croagh Patrick 5NM radius centred on 534534.6N 0093935.8W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Mayo
Croghan 5NM radius centred on 524745.5N 0061925.2W	5000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
Cuilcagh Mtns 5NM radius centred on 541201.7N 0074839.5W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cavan

All flights flown only during daylight hours under VFR. It is not possible to list all sites flown in Ireland as most hills have some hang gliding potential and are flown to a very limited extent by local fliers.

Hang Gliding Sites & Para Gliding			
Designation and Lateral Limits	**Vertical Limits**	**Operator User No.**	**Remarks**
1	**2**	**3**	**4**
Devils Bit 5NM radius centred on 524811.8N 0075720.1W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Tipperary
Dunaney 2NM radius centred on 535153.6N 0061532.9W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Louth
Galtee Mtns 5NM radius centred on 522200.3N 0081031.4W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Tipperary
Gormanston 1NM radius centred on 533834.9N 0061304.0W	1500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Meath
Inchadoney 2NM radius centred on 513553.6N 0085131.9W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cork
Keadeen Mtn 5NM radius centred on 525658.9N 0063449.8W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
Keeper Hill 5NM radius centred on 524451.8N 0081548.1W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Tipperary
Killeshin 5NM radius centred on 524937.1N 0070012.5W	5000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Laois
Killiney Head 1NM radius centred on 531602.6N 0060634.3W	750ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Dublin Use subject to prior co-ordination with Dublin ATC.
Knocknagantee 5NM radius centred on 520141.5N 0091213.4W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Kerry
Knocknakilton 5NM radius centred on 521128.5N 0095938.9W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Kerry
Lacken 2NM radius centred on 530813.4N 0062649.1W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow Site used for training purposes
Lough Bray 2NM radius centred on 531052.2N 0061747.1W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
Maulin 2NM radius centred on 530920.9N 0061354.3W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
Maumturk 5NM radius centred on 532855.9N 0093617.9W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Galway
Minaun (Achill) 5NM radius centred on 535722.1N 0100145.0W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Mayo

All flights flown only during daylight hours under VFR. It is not possible to list all sites flown in Ireland as most hills have some hang gliding potential and are flown to a very limited extent by local fliers.

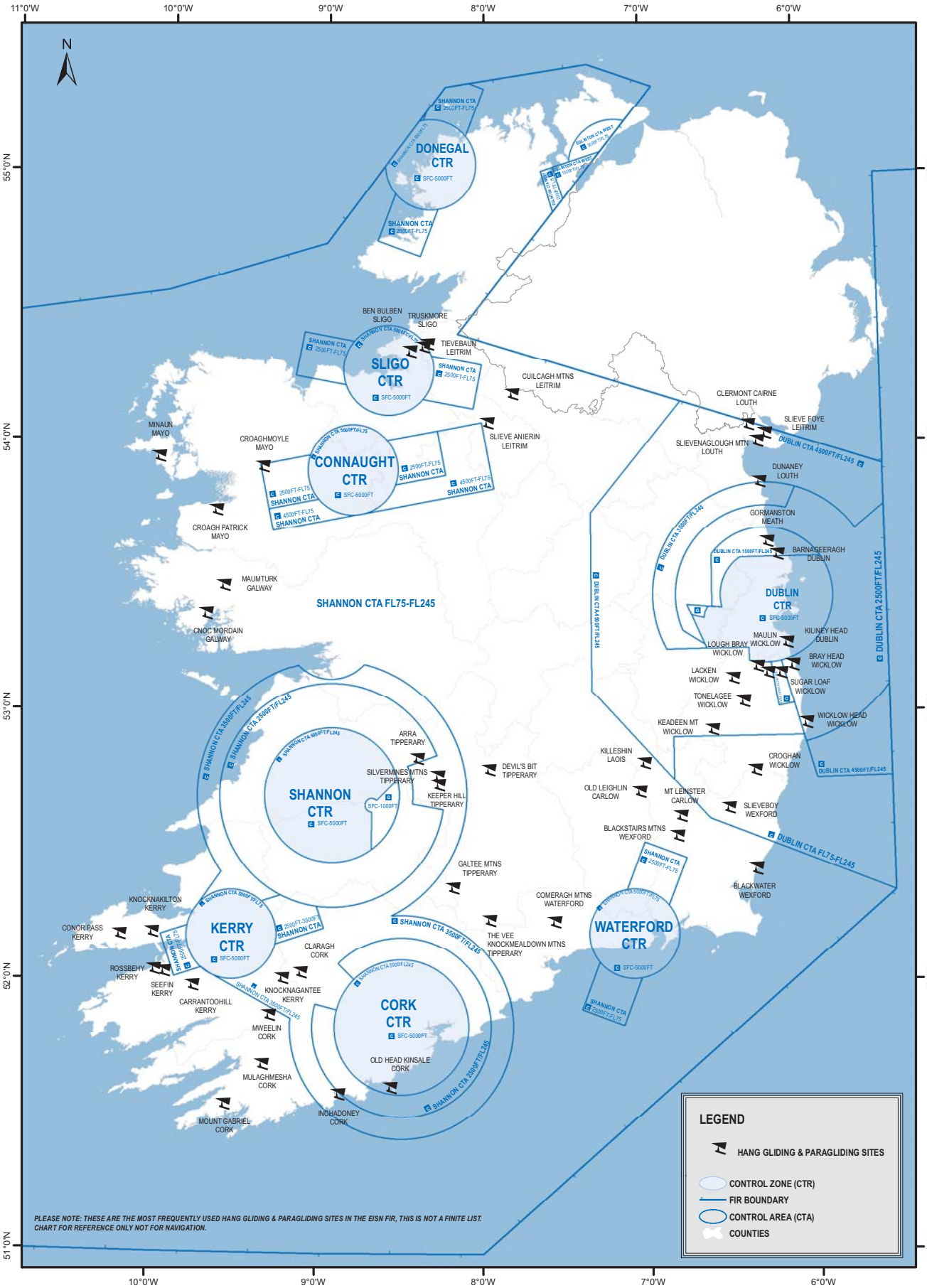
Hang Gliding Sites & Para Gliding			
Designation and Lateral Limits	**Vertical Limits**	**Operator User No.**	**Remarks**
1	**2**	**3**	**4**
Mount Leinster 5NM radius centred on 523746.1N 0064654.0W	5000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Carlow Most regularly flown site in Ireland: Popular for cross country flying and competitions.
Mount Gabriel 5NM radius centred on 513324.7N 0093232.3W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cork
Mulaghmesha (Bantry) 5NM radius centred on 514222.2N 0091904.2W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cork
Mweelin 5NM radius centred on 515322.7N 0091652.6W	3500ft AGL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cork
Old Head Kinsale 1NM radius centred on 513725.5N 0083245.7W	750ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Cork
Old Leighlin 5NM radius centred on 524315.2N 0070155.9W	5000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Carlow
Rossbehy 5NM radius centred on 520310.8N 0095838.0W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Kerry
Seefin 5NM radius centred on 520247.1N 0095459.7W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Kerry
Silvermines Mtn 5NM radius centred on 524645.4N 0081609.7W	3000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Tipperary
Slieveboy 5NM radius centred on 523923.1N 0062920.4W	5000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wexford
Slieve Anieron 5NM radius centred on 540535.1N 0075753.8W	7000ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Leitrim
Slieve Foye 5NM radius centred on 540238.1N 0061257.2W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Louth
Slievenaglough Mt 5NM radius centred on 540054.1N 0061559.1W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Louth
Sugar Loaf 2NM radius centred on 530912.4N 0060904.6W	2500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
The Vee, Knockmealdown Mtns 5NM radius centred on 521441.1N 0075701.5W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Tipperary
Tievebaun 1NM radius centred on 542307.2N 0082043.3W	4500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Leitrim

All flights flown only during daylight hours under VFR. It is not possible to list all sites flown in Ireland as most hills have some hang gliding potential and are flown to a very limited extent by local fliers.

Hang Gliding Sites & Para Gliding			
Designation and Lateral Limits	**Vertical Limits**	**Operator User No.**	**Remarks**
1	**2**	**3**	**4**
Tonelagee 3NM radius centred on 530305.4N 0062305.1W	3500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow
Truskmore 5NM radius centred on 542222.8N 0082214.1W	3500ft AGL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Sligo
Wicklow Head 1NM radius centred on 525803.1N 0060004.6W	1500ft AMSL	URL: www.ihpa.ie Email: committee@ihpa.ie	County Wicklow

All flights flown only during daylight hours under VFR. It is not possible to list all sites flown in Ireland as most hills have some hang gliding potential and are flown to a very limited extent by local fliers.

HANG GLIDING & PARAGLIDING SITES



Model Aircraft Flying
The Model Aeronautics Council of Ireland has notified the Irish Aviation Authority that Radio controlled model aircraft can be flown at the following locations

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Athlone MFC 1, 800m radius centred on: 532548N 0080500W	400ft AGL	Athlone Model Flying Club 1 URL: www.athlonemodelflyingclub.com	Post: Barony, Castlesamson, Athlone
Balheary MFC 1, 800m radius centred on: 533022N 0061407W	400ft AGL	Balheary Model Flying Club 1 URL: www.maci.ie	Post: Roscall, Balheary, Co. Dublin.
Bandon MFC 1, 800m radius centred on: 514423N,0084139W	400ft AGL	Bandon Model Flying Club 1 URL: www.facebook.com/ BandonModelFlyingClub	Post: Clashafree, Bandon, Co.Cork.
Boyneside MFC 1, 800m radius centred on: 535319N 0062430W	400ft AGL	Boyneside Model Flying Club 1 URL: www.maci.ie	Post: Adamstown, Dunleer, Co. Louth.
Boyneside MFC 2, 800m radius centred on: 535206N 0062128W	400ft AGL	Boyneside Model Flying Club 2 URL: www.maci.ie	Post: Bolies, Kilsaran, Co. Louth.
Carron Model Flying Club 1, 800m radius centred on: 523001N 0081128W	400ft AGL	Carron Model Flying Club 1 URL: Carron MFC Facebook	Post: Carron, Carron House, Co. Tipperary.
Cork Model Aero Club 1, 800m radius centred on: 520053N 0081027W	400ft AGL	Cork Model Aero Club 1 URL: www.corkmodelaeroclub.ie	Post: Castelyons, Midleton, Co. Cork.
Cork Model Aero Club 2, 800m radius centred on: 514648N 0084312W	400ft AGL	Cork Model Aero Club 2 URL: www.corkmodelaeroclub.ie	Post: Little Silver House, Bandon, Co. Cork.
Cork Model Aero Club 3, 300m radius centred on: 515826N 0082630W	400ft AGL	Cork Model Aero Club 3 URL: www.corkmodelaeroclub.ie	Post: Whites Cross, Co. Cork.
Dolly's Grove MFC 1, 800m radius centred on: 532521N 0063243W	400ft AGL	Dolly's Grove Model Flying Club 1 URL: www.maci.ie	Post: Staffordstown, Dunboyne, Co. Meath.
Dublin Kestrel MFC 1, 800m radius centred on: 531219N 0062529W	400ft AGL	Dublin Kestrel Model Flying Club 1 URL: www.dkmfc.net	Post: Ballyfolan, Brittas, Co. Wicklow.
Fingal MFC 1, 800m radius centred on: 533215N 0060503W	400ft AGL	Fingal Model Flying Club 1 URL: www.facebook.com/ FingalModelFlyingClub/	Post: Drumanagh, Loughshinny, Co. Dublin.
Fingal MFC 2, 500m radius centred on: 533450N 0061340W	400ft AGL	Fingal Model Flying Club 2 URL: www.facebook.com/ FingalModelFlyingClub/	Post: Ringcommon Sports Centre, Balbriggan, Co. Dublin.
Galway MFC 1, 800m radius centred on: 532040N 0090055W	400ft AGL	Galway Model Flying Club 1 URL: www.galwaymodelflying.org	Post: Carowbrowne, Co. Galway.
Irish Jet Modellers Flying Club 1, 800m radius centred on: 531436N 0075344W	400ft AGL	Irish Jet Modellers Flying Club 1 URL: www.jmaireland.com	Post: Ballyloughnan Farm, Belmont, Co. Offaly.

Model Aircraft Flying

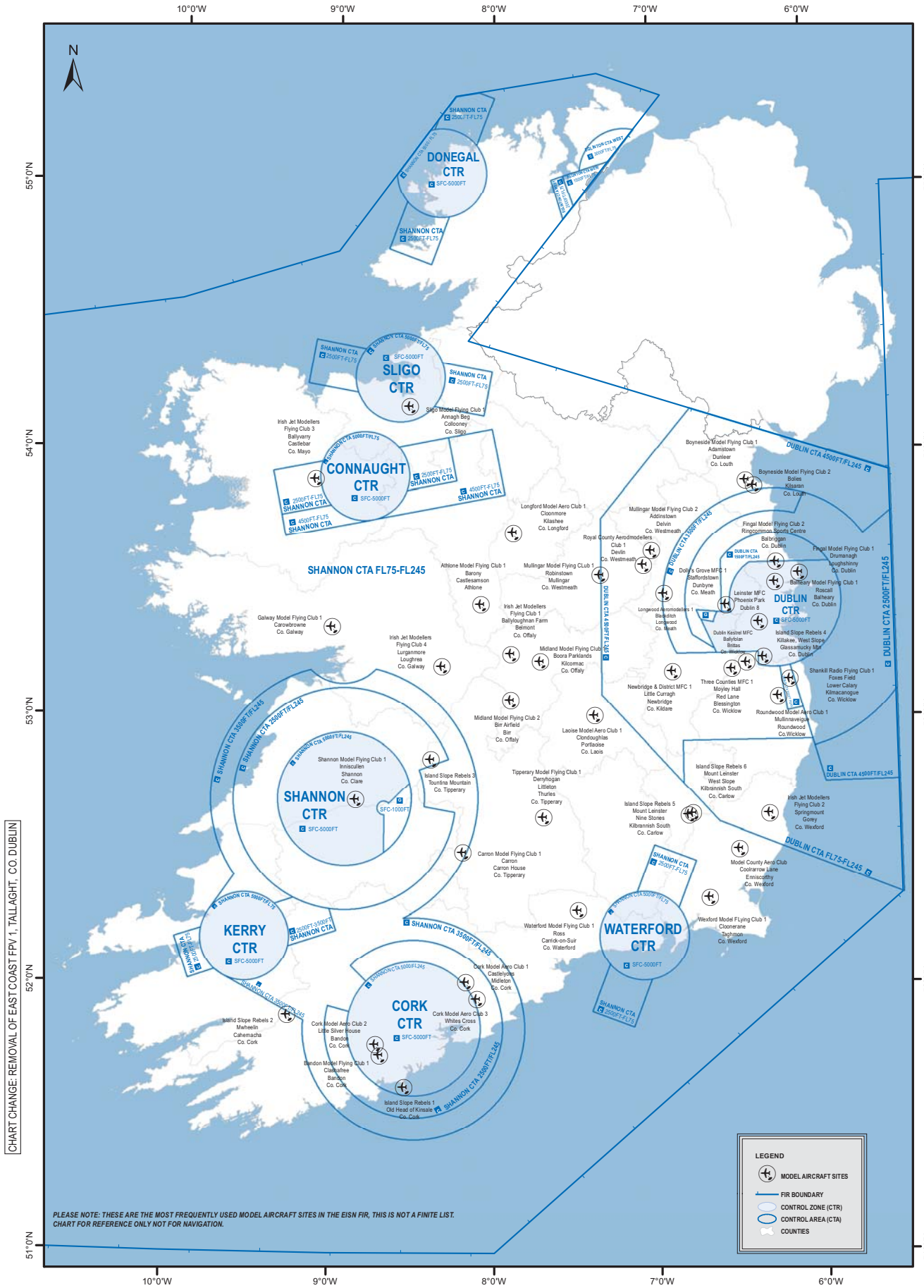
The Model Aeronautics Council of Ireland has notified the Irish Aviation Authority that Radio controlled model aircraft can be flown at the following locations

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Irish Jet Modellers Flying Club 2, 800m radius centred on: 523823N 0061803W	400ft AGL	Irish Jet Modellers Flying Club 2 URL: www.jmaireland.com	Post: Springmount, Gorey, Co. Wexford.
Irish Jet Modellers Flying Club 3, 800m radius centred on: 535352N 0090753W	400ft AGL	Irish Jet Modellers Flying Club 3 URL: www.jmaireland.com	Post: Ballyvarry, Castlebar, Co. Mayo.
Irish Jet Modellers Flying Club 4, 800m radius centred on: 531148N 0081937W	400ft AGL	Irish Jet Modellers Flying Club 4 URL: www.jmaireland.com	Post: Lurganmore, Loughrea, Co. Galway.
Island Slope Rebels 1, 800m radius centred on: 513714N 0083242W	400ft AGL	Island Slope Rebels 1 URL: www.gliderireland.net	Post: Old Head of Kinsale, Co. Cork.
Island Slope Rebels 2, 800m radius centred on: 515324N 0091521W	400ft AGL	Island Slope Rebels 2 URL: www.gliderireland.net	Post: Mwheelin, Cahernacha, Co. Cork.
Island Slope Rebels 3, 800m radius centred on: 525052N 0082329W	400ft AGL	Island Slope Rebels 3 URL: www.gliderireland.net	Post: Tountina Mountain, Co. Tipperary.
Island Slope Rebels 4, 800m radius centred on: 531330N 0061906W	400ft AGL	Island Slope Rebels 4 URL: www.gliderireland.net	Post: Killakee, West Slope, Glassamucky Mountain, Co. Dublin.
Island Slope Rebels 5, 800m radius centred on: 523818N 0064759W	400ft AGL	Island Slope Rebels 5 URL: www.gliderireland.net	Post: Mount Leinster, Nine stones, Kilbrannish South, Co. Carlow.
Island Slope Rebels 6, 800m radius centred on: 523843N 0064623W	400ft AGL	Island Slope Rebels 6 URL: www.gliderireland.net	Post: Mount Leinster, West Slope, Kilbrannish South, Co. Carlow.
Laoise Model Aero Club 1, 800m radius centred on: 530050N 0072225W	400ft AGL	Laoise Model Aero Club 1 URL: www.airlaois.com	Post: Clondouglas, Portlaoise, Co. Laois.
Leinster MFC 1, 300m radius centred on: 532123N 0062026W	400ft AGL	Leinster Model Flying Club 1 URL: www.leinstermodelflyingclub.ie	Post: Phoenix Park, Dublin 8 Co. Dublin.
Longford Model Aero Club 1 800m radius centred on: 534150N 0075243W	400ft AGL	Longford Model Aero Club 1 URL: www.maci.ie	Post: Cloonmore, Killashee, Co. Longford.
Longwood Aeromodellers 1, 800m radius centred on: 532800N 0065600W	400ft AGL	Longwood Aeromodellers 1 URL: www.maci.ie	Post: Blackditch, Longwood, Co. Meath.
Midland Model Flying Club 1, 800m radius centred on: 531255N 0074239W	400ft AGL	Midland Model Flying Club 1 URL: www.midlandmodelflyingclub.org	Post: Boora Parklands, Kilcormac, Co. Offaly.

Model Aircraft Flying
The Model Aeronautics Council of Ireland has notified the Irish Aviation Authority that Radio controlled model aircraft can be flown at the following locations

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
Midland Model Flying Club 2, 800m radius centred on: 530415N 0075353W	400ft AGL	Midland Model Flying Club 2 URL: www.midlandmodelflyingclub.org	Post: Birr Airfield, Birr, Co. Offaly.
Model County Aero Club 1, 800m radius centred on: 523030N 0062930W	400ft AGL	Model County Aero Club 1 URL: www.maci.ie	Post: Coolrarrow Lane, Enniscorthy, Co. Wexford.
Mullingar MFC 1, 800m radius centred on: 533221N 0071959W	400ft AGL	Mullingar Model Flying Club 1, URL: www.maci.ie	Post: Robinstown, Mullingar, Co. Westmeath.
Mullingar MFC 2, 800m radius centred on: 533742N 0070038W	400ft AGL	Mullingar Model Flying Club 2 URL: www.maci.ie	Post: Addinstown, Delvin, Co. Westmeath.
Newbridge and District MFC 1, 500m radius centred on: 531034N 0065310W	400ft AGL	Newbridge and District Model Flying Club 1 URL: www.maci.ie	Post: Little Curragh, Newbridge, Co. Kildare.
Roundwood Model Aero Club 1, 800m radius centred on: 530440N 0061353W	400ft AGL	Roundwood Model Aero Club 1, URL: www.rwmac.ie	Post: Mullinnaveigue, Roundwood, Co. Wicklow.
Royal County Aeromodellers Club 1, 800m radius centred on: 533432N 0070339W	400ft AGL	Royal County Aeromodellers Club 1, URL: www.royalcountyflyers.com	Post: Ballyhealy, Delvin, Co. Westmeath.
Shankill Radio Flying Club 1, 800m radius centred on: 530826N 0060930W	400ft AGL	Shankill Radio Flying Club 1, URL: www.srfc.net	Post: Foxes Field, Lower Calary, Kilmacanogue, Co. Wicklow.
Shannon MFC 1, 300m radius centred on: 524155N 0085117W	200ft AGL	Shannon Model Flying Club 1, URL: Facebook SMFC	Post: Inniscullen, Shannon, Co. Clare.
Sligo MFC 1, 500m radius centred on: 541012N 0083207W	400ft AGL	Sligo Model Flying Club 1, URL: www.sligomfc.com	Post: Annagh Beg, Collooney, Co. Sligo.
Three Counties MFC 1, 800m radius centred on: 531100N 0063100W	400ft AGL	Three Counties Model Flying Club 1, URL: www.maci.ie	Post: Moyley Hall, Red Lane, Blessington, Co. Wicklow.
Tipperary MFC 1, 800m radius centred on: 523756N 0074140W	400ft AGL	Tipperary Model Flying Club 1, URL: Facebook Page Tipp MFC	Post: Derryhogan, Littleton, Thurles, Co.Tipperary.
Waterford MFC 1, 800m radius centred on: 521655N 0072913W	400ft AGL	Waterford Model Flying Club 1, URL: Facebook WMFC	Post: Ross, Carrick-on-Suir, Co. Waterford.
Wexford MFC 1, 800m radius centred on: 521943N 0064045W	400ft AGL	Wexford Model Flying Club 1, URL: www.wexfordmodelflyingclub.com	Post: Cloonerane, Taghmon, Co. Wexford.

MODEL AIRCRAFT SITES



7. AREAS OF OPERATION

Areas of Operation are not designated airspaces but show the delineation of airspace established to identify areas within which frequent aviation activities are conducted. The table below displays airfields around which an area of operation is established within the Shannon FIR.

Designation and Lateral Limits	Vertical Limits	Operator User No.	Remarks
1	2	3	4
ILAS Airfield A circle 1.5nm radius centred at 521754N 0064055W* Class G	Upper Limit: 1500FT AMSL Lower Limit: SFC	URL: www.ilas.ie	123.750MHz County Wexford
Birr Airfield A circle, 1.5nm radius centred at 530415N 0075355W Class: G, MOA Airspace	Upper Limit: 1500FT AMSL Lower Limit: SFC		122.950MHz County Offaly Located within Military Operating Area.
Navan Airfield A circle, 1.5nm radius centred at 534145N 0063915W* Class: G	Upper Limit: 1500FT AMSL Lower Limit: SFC	URL: www.navanairfield.com	118.125MHz County Meath
Tibohine Airfield A circle, 1.5nm radius centred at 535301N 0082915W* Class: G	Upper Limit: 1500FT AMSL Lower Limit: SFC	URL: http://tibohine.weebly.com/	120.000MHz County Roscommon Located within EIKN CTA.
* Data whose accuracy has not been quality assured.			

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EIDL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EIDL – DONEGAL

EIDL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP and its site**	550239N 0082028W Mid-point RWY 03/21
2	**Direction and distance from (city)**	2NM SW of Bunbeg
3	**AD Elevation, Reference Temperature & Mean Low Temperature**	31ft/19.1°C (Max Temp) 2.2°C (MNM Temp)
4	**Geoid undulation at AD ELEV PSN**	190ft
5	**MAG VAR/Annual change**	2.85°W(2023)/0.22°E
6	**AD Operator, address, telephone, telefax, email, AFS, Website**	Post: Donegal Airport Co, Carrickfinn, Kincasslagh, Co. Donegal. Phone:+353 74 954 82 84 Phone:+353 74 954 82 32 Fax: + 353 74 954 84 83 Fax: + 353 74 956 29 16 (ATC) Email: info@donegalairport.ie Email: atc@donegalairport.ie AFS: EIDLZTZX
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	Nil

EIDL AD 2.3 OPERATIONAL HOURS

1	**AD Operator**	Winter: MON - FRI 0900-1700 SAT & SUN 1000-1600 Summer: MON - FRI 0800-1600 SAT & SUN 0900-1500 Variations promulgated by NOTAM. Check NOTAM.
2	**Customs and immigration**	24HR PN required to AD Operator
3	**Health and sanitation**	As ATS
4	**AIS Briefing Office**	See Remarks
5	**ATS Reporting Office (ARO)**	As ATS
6	**MET Briefing Office**	See Remarks

7	**ATS**	Winter: MON - SAT 0740-2000 SUN 0940-2000 Summer: MON - SAT 0640-1900 SUN 0840-1900 Variations promulgated by NOTAM. Check NOTAM.
8	**Fuelling**	As ATS
9	**Handling**	As ATS
10	**Security**	H24
11	**De-icing**	OCT-APR On request
12	**Remarks**	AVBL outside published HR, 24HR PN to AD Operator PIB AVBL from AIS, Shannon see GEN 3.1.5 MET briefing AVBL from Central Aviation Office, Shannon Airport see GEN 3.5.4 PPR required in advance for all flights, contact AD Operator

EIDL AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo handling facilities:**	Contact Aerodrome Operator
2	**Fuel/oil types**	JET A1,
3	**Fuelling facilities/capacity**	1 Truck 10,000L JET A1
4	**De-icing facilities**	AVBL Mobile Unit
5	**Hangar space available for visiting aircraft**	40Mx30M
6	**Repair facilities for visiting aircraft**	Nil
7	**Remarks**	Handling services AVBL within AD HR by arrangement with the AD

EIDL AD 2.5 PASSENGER FACILITIES

1	**Hotel(s) at or in the vicinity of AD**	Available within 2 miles. B+B Near AD
2	**Restaurant(s) at or in the vicinity of AD**	At AD and in local towns.
3	**Transportation possibilities**	Taxis and Car Hire from the AD
4	**Medical facilities**	First Aid at AD. Hospital within 7 miles
5	**Bank and Post Office at or in the vicinity of AD**	AVBL in Bunbeg & Dungloe. ATM at AD
6	**Tourist Office**	At AD
7	**Remarks**	Nil

EIDL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	CAT 5 Scheduled Flights.
2	**Rescue equipment**	2 x Panther with support equipment.
3	**Capability for removal of disabled aircraft**	No lifting capability on site, outside contractor resources can be arranged for aircraft up to 25 tonne, please contact the Disabled Aircraft Coordinator – Airport Duty Manager email: info@donegalairport.ie, Tel: +353 7495 48284.
4	**Remarks**	Fire Cover available during Operating HR

EIDL AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING AND SNOW PLAN

1	**Type(s) of clearing equipment**	2 Ploughs, 1 Brush & 2 RWY De-icer Sprayers
2	**Clearance priorities**	RWY 03/21 and associated TWY to Apron
3	**Use of material for movement area surface treatment**	KAC as required
4	**Specially prepared winter runways**	Nil
5	**Remarks**	Nil

EIDL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Apron surface and strength**	Surface: Bitumen/Macadam Strength: PCN 30/F/B/X/T			
2	**Taxiway width, surface and strength**	**TAXIWAY**	**WIDTH**	**SURFACE**	**STRENGTH**
		A	25M	Bitumen/ Macadam	PCN 23/F/B/X/T
		B	12M	CONC	Not Specified
3	**Altimeter checkpoint location and elevation**	Nil			
4	**VOR checkpoint**	Nil			
5	**INS checkpoint**	Nil			
6	**Remarks**	Nil			

EIDL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Taxiing Guidance System Signboards at intersection of TWY and RWY and at the Holding Position. Guide Lines at Apron
2	**RWY/TWY markings and LGT**	RWY: Marked: Designator, THR, Centreline, RWY End Turnaround Areas Guidance, Aiming Point. Lighted: THR, End, Edge TWY: Marked: Centreline, Holding position. Lighted: Edge
3	**Stop bars**	Nil
4	**Other RWY Protection measures**	-
5	**Remarks**	Nil

EIDL AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	**OBST Type**	**OBST Position**	**ELEV/HGT**	**Markings/Type, Colour**	**Remarks**
a	**b**	**c**	**d**	**e**	**f**
Air Navigation Obstacle (iaa.ie) - https://www.iaa.ie/commercial-aviation/airspace/air-navigation-obstacles					

In Area 3					
OBST ID/ Designation	**OBST Type**	**OBST Position**	**ELEV/HGT**	**Markings/Type, Colour**	**Remarks**
a	**b**	**c**	**d**	**e**	**f**
Air Navigation Obstacle (iaa.ie) - https://www.iaa.ie/commercial-aviation/airspace/air-navigation-obstacles					

EIDL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	Central Aviation Office, Shannon Airport see GEN 3.5.4
2	**Hours of service**	Refer to EIDL AD 2.3
3	**Office responsible for TAF preparation** **Periods of validity** **Interval of issuance**	Met Eireann Central Aviation Office, Shannon. 9HR. 0500, 0800, 1100, 1400, 1700.
4	**Trend forecast** **Interval of issuance**	Nil.
5	**Briefing/consultation provided**	Personal.
6	**Flight documentation** **Language(s) used**	Charts and Tabular English

7	**Charts and other information available for briefing or consultation**	6-hourly synoptic chart; 6-hourly prognostic chart (surface); prognostic chart of significant weather; prognostic chart of wind/temperature at upper levels; prognostic chart of tropopause levels.
8	**Supplementary equipment available for providing information**	Automatic Weather Station.
9	**ATS units provided with information**	EIDL TWR
10	**Additional information (limitation of service, etc.)**	Automatic Weather Station Phone:+353 74 9548921 METAR - Interval of issuance 30mins. Refer to GEN 3.5.4.2 to request additional information.

EIDL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR Geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03	020.39°	1496 x 30	21/F/B/X/T ASPHALT -	550222.76N 0082038.17W 550301.77N 0082012.91 W 190ft	3M/9.8ft
21	200.40°	1496 x 30	21/F/B/X/T ASPHALT -	550257.86N 0082015.45W 550216.41N 0082042.28W 190ft	9.46M/31ft

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RWY End Safety Area dimensions (M)	Location and description of Arresting System	OFZ	Remarks
7	8	9	10	11	12	13	14
Refer to Aerodrome Obstacle Chart Type A EIDL AD 2.24-2	Nil	279 x 150	1562 x 150	120 x 60	-	Nil	RWY 03 THR Displaced 209M RWY surface grooved
	Nil	74 x 150	1562 x 150	120 x 60	-	Nil	RWY 21 THR Displaced 129M RWY surface grooved

EIDL AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
03	1314	1593	1314	1158	THR 03 Displaced 209M
21	1332	1406	1332	1204	THR 21 Displaced 129M
Note: Start of take-off run available for RWY 03 commences at 155M before displaced threshold RWY 03.					

EIDL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ Length	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	LIH 420M, 1 crossbar at 300M.	DTHR. LIH Elev. Green WBAR	PAPI, left Slope 3.5° MEHT 29ft	Nil	Nil	Elevated LIH directional, 1500M, 60M, White.	End LIH Inset RED END (Turning Area Elevated RED)	Nil	Nil
21	LIH 455M, 1 crossbar at 345M.	DTHR. LIH Elev. Green WBAR	PAPI, left Slope 3.5° MEHT 29ft	Nil	Nil	Elevated LIH directional, 1500M, 60M, White,	End LIH Inset RED (Turning Area) Elevated RED	Nil	Nil
Note: All runway lighting are LED.									

EIDL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	**ABN/IBN location, characteristics and hours of operation**	At Hangar 550217N 0082030W, FLG White/Green, 24 per min. As per ATC.
2	**LDI location and LGT** **Anemometer location and LGT**	WDI (South) 150M from DTHR 03 Lighted WDI (North) 150M from DTHR 21 Lighted
3	**TWY edge and centre line lighting**	Elevated Blue Omni-directional TWY Edge Elevated Blue Omni-directional TWY Edge for Runway End Turning Areas
4	**Secondary power supply/switch-over time**	Secondary Power Supply to all Lighting at AD. Switch-over time: 12 to 15 SEC.
5	**Remarks**	Nil

EIDL AD 2.16 HELICOPTER LANDING AREA

Nil

EIDL AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	Donegal Control Zone. Circle radius 10NM 550239N 0082028W (Donegal ARP) within Shannon FIR.
2	**Vertical limits**	5000ft AMSL
3	**Airspace classification**	C G (outside hours of operation of ATC)
4	**ATS Unit call sign Language(s)**	Donegal Tower. Donegal Information (during the hours of AFIS operation) English.
5	**Transition altitude**	5000ft
6	**Hours of applicability**	-
7	**Remarks**	The hours of CTR and operation of AFIS are promulgated by NOTAM.

EIDL AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel	SAT VOICE No.	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	Donegal Tower	129.800MHz	-	-	As for ATS EIDL AD 2.3	Nil
GND	Donegal Ground	129.800MHz	-	-	As for ATS EIDL AD 2.3	Nil
AFIS	Donegal Information	129.800MHz	-	-	As for ATS EIDL AD 2.3	During the hours of AFIS operation. Check NOTAM and refer to ATIS.
ATIS	Donegal ATIS	129.925 MHz	-	-	H24	Press PTT 3 times to activate.

EIDL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, Type of supported OP (for VOR/ILS/ MLS/GNSS/ SBAS and GBAS, give declination)	ID	Frequency Channel	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service Volume Radius from the GBAS Reference Point	Remarks
1	2	3	4	5	6	7	8
NDB	CFN	361kHz	H24	550238.4N 0082021.4W			Designated Operational Coverage 25 NM

Type of aid, MAG VAR, Type of supported OP (for VOR/ILS/ MLS/GNSS/ SBAS and GBAS, give declination)	ID	Frequency Channel	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service Volume Radius from the GBAS Reference Point	Remarks
1	2	3	4	5	6	7	8
DME	IFN	110.3 MHz (CH 40x)	H24	550238.1N 0082022.3W	40ft		Designated Operational Coverage 20 NM DME reads Zero at DTHR 03/21. DME IFN 110.3 MHZ CH 40X. Due high ground, may not be received vicinity QDR 100 NDB CFN 361KHZ outside 16NM below 4500ft AMSL.
LOC 21	IFN	110.3 MHz	H24	550215.9N 0082042.6W			Coverage +/- 10º at 18nm, Restriction: +/- 35º at 10nm

EIDL AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Landing, take-off, manoeuvring on the Aerodrome outside published opening hours is illegal unless such permission has been obtained in advance or in the event of an emergency.

2. Runway Operations and RED Runway Operational and Runway End Lights

The end of the TORA and LDA for Runway 03 is marked by a row of inset RED Runway Operational lights across the northern part of the runway, 129M from the north end of the runway pavement.

The end of the TORA and LDA for Runway 21 is marked by a row of inset RED Runway Operational lights across the southern part of the runway, 163M from the south end of the runway pavement.

The inset RED lights marking the end of the above declared operational distances are normally energised ON, and showing a red colour, when the runway is active at such times when the runway lighting is required.

In addition to these lights, a row of elevated RED Runway END Lights is installed at the extreme ends of the runway pavement to mark the physical end of the runway pavement and the limits of the Runway End Turning Areas. These Runway END Lights will normally be OFF during take-off and landing operations on the runway, and only illuminated by ATC following a landing, or prior to an aircraft commencing its take-off run, in order to mark the end of the pavement so that aircraft may safely execute a 180° turn on the pavement in the Runway End Turning Areas.

Aircraft landing on Runway 03 or Runway 21 may, after landing, taxi across the inset RED lights for the purposes of turning in the Runway End Turning Areas once ATC has switched ON the red Runway End Lights. Similarly, for aircraft taxiing on the runway to take off from Runway 21, these may taxi across the RED Operational Lights once ATC has switched ON the Runway END lights so that a turn may be made in the Runway End Turning Area.

EIDL AD 2.21 NOISE ABATEMENT PROCEDURES

Operation is unrestricted

EIDL AD 2.22 FLIGHT PROCEDURES

1. Arrival Procedures

Clearance to enter the CTR

Shannon ATS will clear arriving traffic to descend to the lowest useable flight level within controlled airspace (FL080/ Shannon Transition level if higher). EIDL ATC will provide the transition altitude and QNH. All aircraft below the transition altitude should use the QNH provided.

A lower level/altitude within controlled airspace may be coordinated with Donegal ATC. Clearance to enter the CTR will be provided by ATC EIDL on 129.800MHz. Arriving aircraft to call no later than 25 DME IFN from EIDL.

Descent into the FIR (Class G Uncontrolled airspace)

Caution: Descent below FL080 or Transition level if higher, before the lateral limits of the Control Zone or associated stubs as outlined in ENR 2.1 will bring the flight into Shannon Class G (uncontrolled) airspace. There may be traffic operating in this airspace that is unknown and not operating with a transponder. Such descent, if requested, may be given at pilot's discretion with a clearance to re-enter controlled airspace at or descending to a specified level/altitude agreed with ATC. Flight information in the FIR is available from Shannon ATS on 127.500MHz

Arrival routes may be varied at the discretion of ATC. Arrival Routes are based on the holding pattern established at CFN.

EIDL ATC will issue expected approach times as appropriate for use in the event of a communication failure.

2. Holding Procedures

Holding Point	LOC	Coordinates	MAG Track Inbound	Dir. of Turn	Limiting outbound	Holding Level Min / Max	Outbound time	Max las Below FL070	Remarks
CFN	-	550238.42N 0082021.39W	025°	Left Hand	-	3600ft/ FL070	1 Min	220 KT	

3. Communication Failure

In the event of communication failure, the pilot shall act in accordance with the communication failure procedures in ICAO Annex 2.

4. Reduced Aerodrome Visibility Procedures and Low Visibility Procedures

Reduced Aerodrome Visibility Procedures are approved for operations on Runway 03 and for Runway 21.

4.1 Reduced Aerodrome Visibility Procedures (RAVP)

Reduced Aerodrome Visibility Procedures come into effect when:

A. The visibility on any part of the aerodrome is insufficient for ATC to exercise control over all traffic on the basis of visual surveillance; or

B. The visibility on any part of the aerodrome is less than 1400M.

The Maximum allowable movement rate on the manoeuvring area when RAVPs are in force is 3 (2 aircraft and 1 vehicle or 2 vehicles and 1 aircraft).

EIDL AD 2.23 ADDITIONAL INFORMATION

Strip dimensions and obstacle limitation surfaces are appropriate to a Code Number 2 Non-Precision Approach Runway.

Wind shear and turbulence may be experienced in the lee of Mt. Errigal.

Caution wind sheer and turbulence may be experienced on APP to RWY 21 in winds in the range of 260° - 310°

EIDL AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart – ICAO	EIDL AD 2.24-1
Aerodrome Obstacle Chart RWY 03/21 – ICAO TYPE A	EIDL AD 2.24-2
Instrument Approach Chart LOC 21 – ICAO	EIDL AD 2.24-3
Instrument Approach Chart NDB RWY 21 – ICAO	EIDL AD 2.24-4
Instrument Approach Chart NDB RWY 03 – ICAO	EIDL AD 2.24-5
Instrument Approach Chart RNP RWY 02 - ICAO	EIDL AD 2.24-7
Instrument Approach Chart RNP RWY 20 - ICAO	EIDL AD 2.24-9
Visual Approach Chart – ICAO	EIDL AD 2.24-15

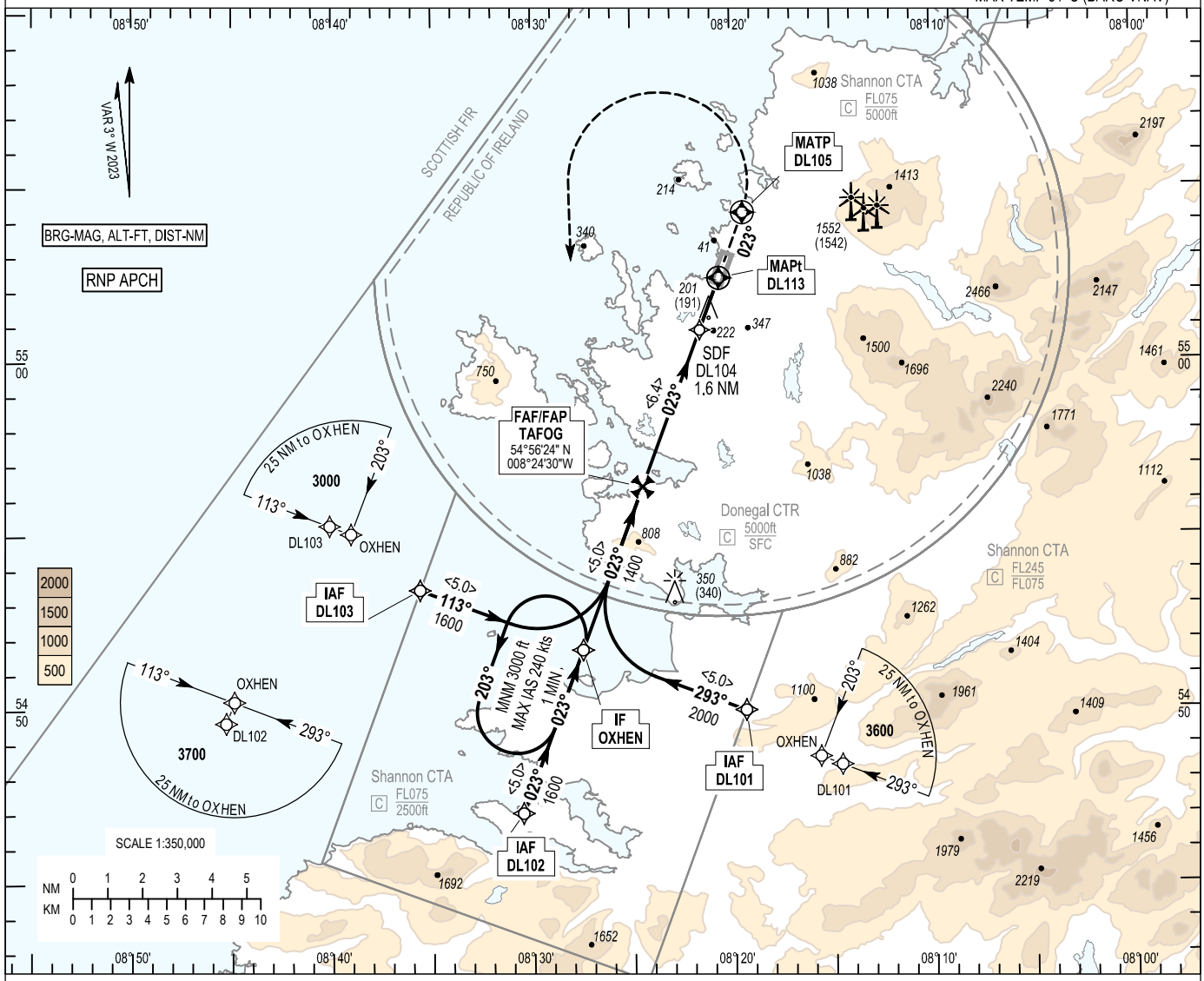
INSTRUMENT APPROACH CHART- ICAO

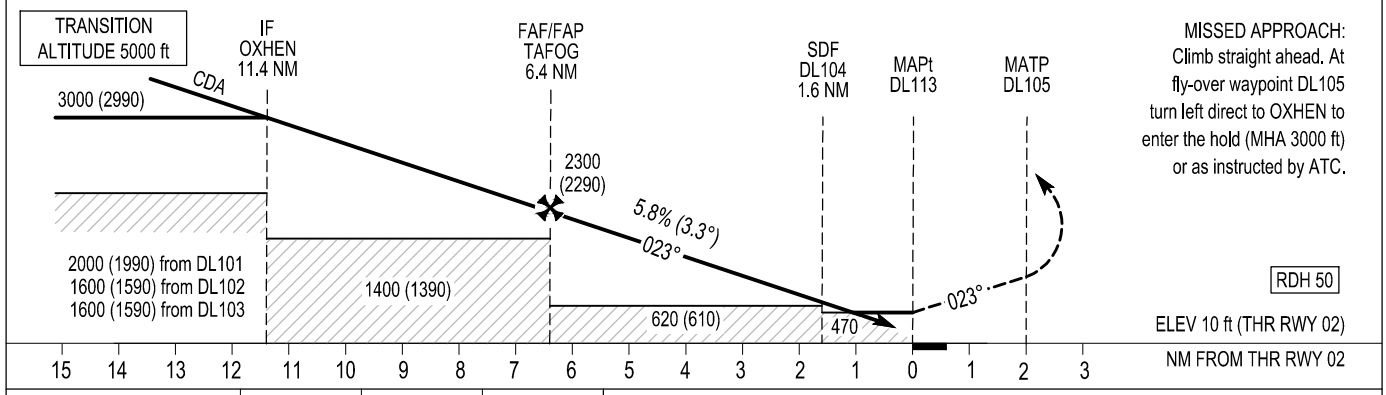
AERODROME ELEV 31 ft
HEIGHTS RELATED TO THR RWY 02 - ELEV 10 ft

Donegal TWR	129.800
Donegal GND	129.800
Donegal ATIS	129.925
Shannon ACC	119.075

SBAS
CH 41202
E02A

DONEGAL/DONEGAL
RNP RWY 02
(ACFT CAT A, B, C)
MNM TEMP -10°C (BARO VNAV)
MAX TEMP 31°C (BARO VNAV)





OCA (H)		A	B	C
LNAV		470 (460)		
LNAV / VNAV		350 (340)	360 (350)	370 (360)
LPV		340 (330)	350 (340)	360 (350)
Visual Manoeuvring (Heights AAL)	Total Area	700 (669)		1950 (1919)
	West of RWY	540 (509)	610 (579)	840 (809)

CAUTION:
1. This procedure lies over high ground. Do not descend below minimum procedural level.
2. Turbulence may be experienced due to terrain.

NOTE:
1. Instrument approaches only available when ATC zone is active.
2. Visual segment penetrated to the left and right of track.
3. PAPI 3.5° nominal descent gradient 3.3°.

Recommended Profile in Final Approach							
DIST THR RWY 02 (NM)	6	5	4	3	2		
ALT / HT (ft)	2160 (2150)	1810 (1800)	1460 (1450)	1110 (1100)	760 (750)		
Ground Speed	kts	80	100	110	120	140	160
Descent rate gradient - 5.8% (3.3°) 350 ft/NM	ft / min	470	580	640	700	820	930

CHANGE: New Chart.

Donegal RNP RWY 02 via DL101

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	DL101	544958.3 / 0081924.9	IF	-	-	-	- / +A3600	-	-	-
RNP APCH	OXHEN	545142.9 / 0082731.1	TF	Fly-By	290.5 / 293	5.0	- / +A3000	-	-	-
RNP APCH	TAFOG	545623.6 / 0082430.2	TF	Fly-By	020.4 / 023	5.0	-	-	-	Turn R
RNP APCH	DL104	550052.8 / 0082136.4	TF	Fly-By	020.4 / 023	4.8	-	-	-	-
RNP APCH	DL113	550222.7 / 0082038.2	TF	Fly-Over	020.4 / 023	1.6	-	-	3.3 / 50	-
RNP APCH	DL105	550415.1 / 0081925.6	CF	Fly-Over	020.4 / 023	-	-	-	-	021° CFN / D1.4 IFN
RNP APCH	OXHEN	545142.9 / 0082731.1	DF	Fly-By	-	-	- / +A3000	-	-	Turn L

Donegal RNP RWY 02 via DL102

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	DL102	544702.2 / 0083031.7	IF	-	-	-	- / +A3700	-	-	-
RNP APCH	OXHEN	545142.9 / 0082731.1	TF	Fly-By	020.4 / 023	5.0	- / +A3000	-	-	-
RNP APCH	TAFOG	545623.6 / 0082430.2	TF	Fly-By	020.4 / 023	5.0	-	-	-	-
RNP APCH	DL104	550052.8 / 0082136.4	TF	Fly-By	020.4 / 023	4.8	-	-	-	-
RNP APCH	DL113	550222.7 / 0082038.2	TF	Fly-Over	020.4 / 023	1.6	-	-	3.3 / 50	-
RNP APCH	DL105	550415.1 / 0081925.6	CF	Fly-Over	020.4 / 023	-	-	-	-	021° CFN / D1.4 IFN
RNP APCH	OXHEN	545142.9 / 0082731.1	DF	Fly-By	-	-	- / +A3000	-	-	Turn L

Donegal RNP RWY 02 via DL103

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	DL103	545327.0 / 0083538.1	IF	-	-	-	- / +A3000	-	-	-
RNP APCH	OXHEN	545142.9 / 0082731.1	TF	Fly-By	110.3 / 113	5.0	- / +A3000	-	-	-
RNP APCH	TAFOG	545623.6 / 0082430.2	TF	Fly-By	020.4 / 023	5.0	-	-	-	Turn L
RNP APCH	DL104	550052.8 / 0082136.4	TF	Fly-By	020.4 / 023	4.8	-	-	-	-
RNP APCH	DL113	550222.7 / 0082038.2	TF	Fly-Over	020.4 / 023	1.6	-	-	3.3 / 50	-
RNP APCH	DL105	550415.1 / 0081925.6	CF	Fly-Over	020.4 / 023	-	-	-	-	021° CFN / D1.4 IFN
RNP APCH	OXHEN	545142.9 / 0082731.1	DF	Fly-By	-	-	- / +A3000	-	-	Turn L

Hold Identification

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude (ft)	Maximum Holding Level (FL)	Outbound time (min)	Direction of Turn
OXHEN	545142.9 / 0082731.1	020.4	023	240	+A3000	FL075	1	L

SBAS FAS Data Block Coding Data
Donegal RNP RWY 02

Input Data	
Operation Type	[0] Straight-in/Offset approach
Service Provider	[1] EGNOS
Airport Identifier	EIDL
Runway	02
Runway Direction	[0] None
Approach Performance Designator	[0] APV
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E02A
LTP / FTP Latitude	550222.7205N
LTP / FTP Longitude	0082038.1955W
LTP / FTP Ellipsoidal Height	60.1 m
FPAP Latitude	550314.0980N
Delta FPAP Latitude	51.3775 seconds
FPAP Longitude	0082004.9300W
Delta FPAP Longitude	33.2655 seconds
Threshold Crossing Height	50 ft
Glidepath Angle	3.3 °
Course Width	105 m
Length Offset	408 m
HAL	40 m
VAL	35 m
Output Data	
Data Block	10 0C 04 09 05 02 00 00 01 32 30 05 01 D6 9E 17 99 4E 6B FC 59 16 63 91 01 E3 03 01 F4 01 4A 01 64 33 C8 AF 35 76 35 2F
Calculated CRC Value	3576352F
Required Additional Data	
ICAO Code	EI
LTP/FTP Orthometric Height	3 m
FPAP Orthometric Height (metres)	3
SBAS EGNOS Channel	41202

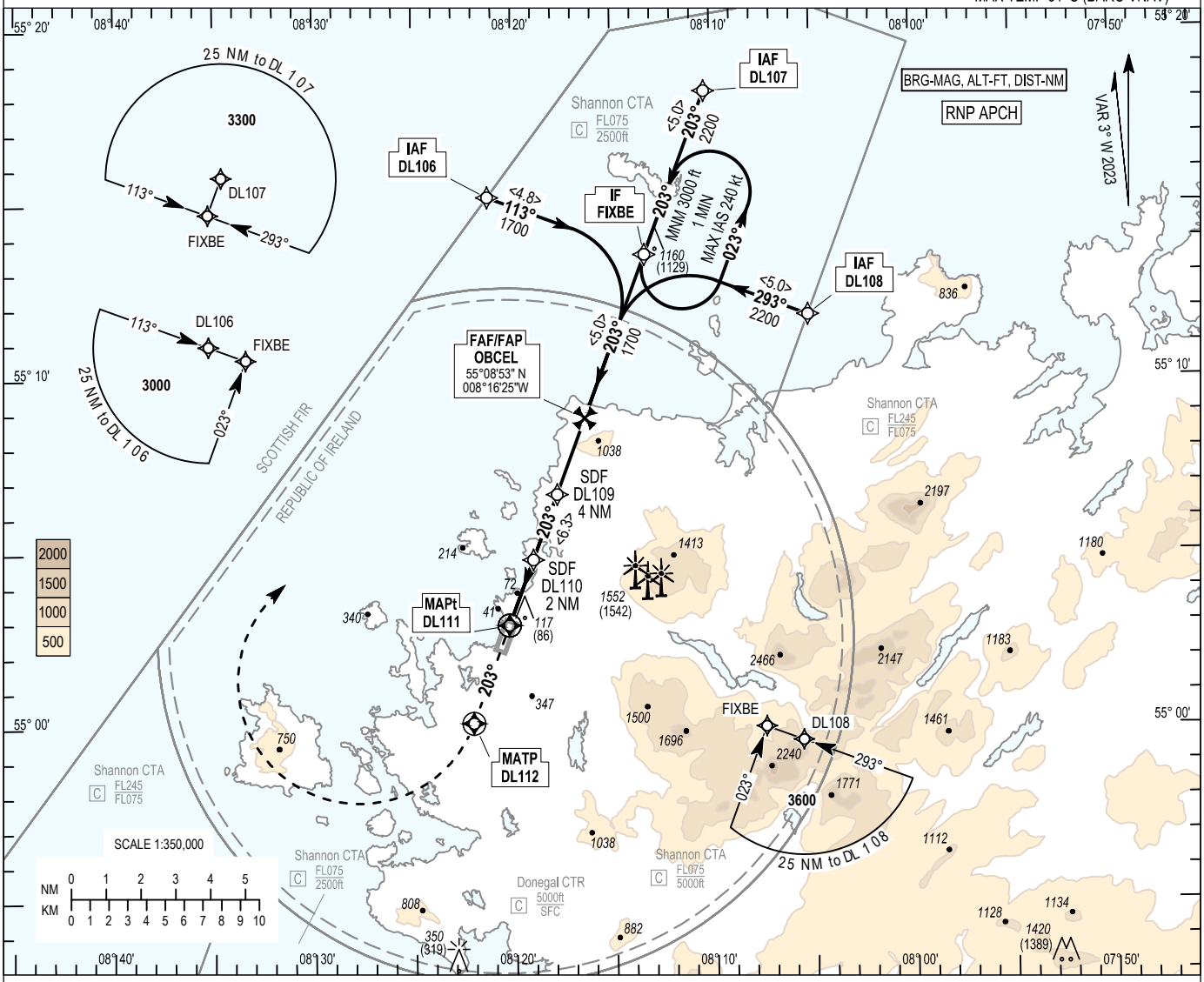
INSTRUMENT APPROACH CHART- ICAO

AERODROME ELEV 31 ft
HEIGHTS RELATED TO THR RWY 20 - ELEV 31 ft

Donegal TWR	129.800
Donegal GND	129.800
Shannon ACC	119.075
Donegal ATIS	129.925

SBAS
CH 57174
E20A

DONEGAL/DONEGAL
RNP RWY 20
(ACFT CAT A, B, C)
MNM TEMP -10°C (BARO VNAV)
MAX TEMP 31°C (BARO VNAV)

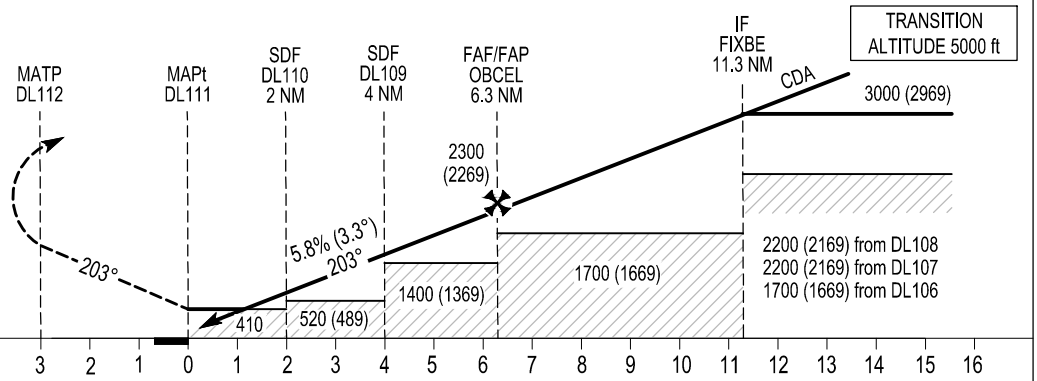


MISSED APPROACH:
Climb straight ahead. At fly-over waypoint DL112 turn right direct to FIXBE to enter the hold (MHA 3000 ft) or as instructed by ATC.

RDH 50

ELEV 31 ft (THR RWY 20)

NM FROM THR RWY 20



OCA (H)		A	B	C
LNAV		410 (379)		
LNAV / VNAV		280 (249)	290 (259)	300 (269)
LPV		266 (235)	276 (245)	289 (258)
Visual Manoeuvring (Heights AAL)	Total Area	700 (669)		1950 (1919)
	West of RWY	540 (509)	610 (579)	840 (809)

CAUTION:
1. This procedure lies over high ground. Do not descend below minimum procedural level.
2. Turbulence may be experienced due to terrain.

NOTE:
1. Instrument approaches only available when ATC zone is active.
2. Visual segment penetrated to the left and right of track.
3. PAPI 3.5° nominal descent gradient 3.3°.

Recommended Profile in Final Approach

DIST THR RWY 20 (NM)	1	2	3	4	5	6
ALT / HT (ft)	430 (399)	780 (749)	1130 (1099)	1480 (1449)	1830 (1799)	2180 (2149)

Ground Speed	kts	80	100	110	120	140	160
Descent rate gradient - 5.8% (3.3°) 350 ft/NM	ft / min	470	580	640	700	820	930

CHANGE: New Chart.

Donegal RNP RWY 20 via DL106

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	DL106	551513.9 / 0082113.8	IF	-	-	-	- / +A3000	-	-	-
RNP APCH	FIXBE	551334.0 / 0081322.0	TF	Fly-By	110.3 / 113	4.8	- / +A3000	-	-	-
RNP APCH	OBCEL	550853.4 / 0081624.6	TF	Fly-By	200.4 / 203	5.0	-	-	-	Turn R
RNP APCH	DL109	550642.4 / 0081749.8	TF	Fly-By	200.4 / 203	2.3	-	-	-	-
RNP APCH	DL110	550450.1 / 0081902.7	TF	Fly-By	200.4 / 203	2.0	-	-	-	-
RNP APCH	DL111	550257.9 / 0082015.5	TF	Fly-Over	200.4 / 203	2.0	-	-	3.3 / 50	-
RNP APCH	DL112	550009.5 / 0082204.6	CF	Fly-Over	200.4 / 203	-	-	-	-	205° CFN / D2.4 IFN
RNP APCH	FIXBE	551334.0 / 0081322.0	DF	Fly-By	-	-	- / +A3000	-	-	Turn R

Donegal RNP RWY 20 via DL107

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	DL107	551814.6 / 0081019.1	IF	-	-	-	- / +A3300	-	-	-
RNP APCH	FIXBE	551334.0 / 0081322.0	TF	Fly-By	200.4 / 203	5.0	- / +A3000	-	-	-
RNP APCH	OBCEL	550853.4 / 0081624.6	TF	Fly-By	200.4 / 203	5.0	-	-	-	-
RNP APCH	DL109	550642.4 / 0081749.8	TF	Fly-By	200.4 / 203	2.3	-	-	-	-
RNP APCH	DL110	550450.1 / 0081902.7	TF	Fly-By	200.4 / 203	2.0	-	-	-	-
RNP APCH	DL111	550257.9 / 0082015.5	TF	Fly-Over	200.4 / 203	2.0	-	-	3.3 / 50	-
RNP APCH	DL112	550009.5 / 0082204.6	CF	Fly-Over	200.4 / 203	-	-	-	-	205° CFN / D2.4 IFN
RNP APCH	FIXBE	551334.0 / 0081322.0	DF	Fly-By	-	-	- / +A3000	-	-	Turn R

Donegal RNP RWY 20 via DL108

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	DL108	551149.3 / 0080511.4	IF	-	-	-	- / +A3600	-	-	-
RNP APCH	FIXBE	551334.0 / 0081322.0	TF	Fly-By	290.5 / 293	5.0	- / +A3000	-	-	-
RNP APCH	OBCEL	550853.4 / 0081624.6	TF	Fly-By	200.4 / 203	5.0	-	-	-	Turn L
RNP APCH	DL109	550642.4 / 0081749.8	TF	Fly-By	200.4 / 203	2.3	-	-	-	-
RNP APCH	DL110	550450.1 / 0081902.7	TF	Fly-By	200.4 / 203	2.0	-	-	-	-
RNP APCH	DL111	550257.9 / 0082015.5	TF	Fly-Over	200.4 / 203	2.0	-	-	3.3 / 50	-
RNP APCH	DL112	550009.5 / 0082204.6	CF	Fly-Over	200.4 / 203	-	-	-	-	205° CFN / D2.4 IFN
RNP APCH	FIXBE	551334.0 / 0081322.0	DF	Fly-By	-	-	- / +A3000	-	-	Turn R

Hold Identification

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude (ft)	Maximum Holding Level (FL)	Outbound time (min)	Direction of Turn
FIXBE	551334.0 / 0081322.0	200.4	203	240	+A3000	FL075	1	L

SBAS FAS Data Block Coding Data
Donegal RNP RWY 20

Input Data	
Operation Type	[0] Straight-in/Offset approach
Service Provider	[1] EGNOS
Airport Identifier	EIDL
Runway	20
Runway Direction	[0] None
Approach Performance Designator	[0] APV
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E20A
LTP / FTP Latitude	550257.8460N
LTP / FTP Longitude	0082015.4555W
LTP / FTP Ellipsoidal Height	66.6 m
FPAP Latitude	550222.7205N
Delta FPAP Latitude	-35.1255 seconds
FPAP Longitude	0082038.1955W
Delta FPAP Longitude	-22.7400 seconds
Threshold Crossing Height	50 ft
Glidepath Angle	3.3 °
Course Width	105 m
Length Offset	328 m
HAL	40 m
VAL	35 m
Output Data	
Data Block	10 0C 04 09 05 14 00 00 01 30 32 05 6C E8 9F 17 41 00 6C FC 9A 16 95 ED FE 58 4E FF F4 01 4A 01 64 29 C8 AF E6 13 AA 7B
Calculated CRC Value	E613AA7B
Required Additional Data	
ICAO Code	EI
LTP/FTP Orthometric Height	9.3 m
FPAP Orthometric Height (metres)	9.3
SBAS EGNOS Channel	57174

EIWF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EIWF – WATERFORD

EIWF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP and its site**	521114N 0070513W Mid-point RWY 03/21
2	**Direction and distance from (city)**	4NM SE of Waterford
3	**AD Elevation, Reference Temperature & Mean Low Temperature**	119 ft /19.6°C (Max Temp) 1.5°C (MNM Temp)
4	**Geoid undulation at AD ELEV PSN**	184 ft
5	**MAG VAR/Annual Change**	3° W (2017) / 11' decreasing
6	**AD Operator, address, telephone, telefax, email, AFS, Website**	Post: Waterford Airport Killowen, Co. Waterford Phone: + 353 51 84 66 00 Fax: + 353 51 87 17 01 [ATC] Fax: + 353 51 87 56 23 [Operations] Email: atc@waterfordairport.net Email: operations@waterfordairport.net AFS: EIWFZTZX
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	Nil

EIWF AD 2.3 OPERATIONAL HOURS

1	**AD Operator**	01 JAN 2023-25 MAR 2023 0745-1300, 1345-1830, 1915-2045 26 MAR 2023-31 MAY 2023 0645-1200, 1245-1730,1815-1945 01 JUN 2023-31 AUG 2023 0745-1200, 1245-1730, 1815-2045 01 SEP 2023-28 OCT 2023 0645-1200, 1245-1730, 1815-1945 29 OCT 2023-31 DEC 2023 0745-1300, 1345-1830, 1915-2045
2	**Customs and immigration**	24 HR PN required to AD Operator.
3	**Health and sanitation**	As per AD Operator
4	**AIS Briefing Office**	See Remarks
5	**ATS Reporting Office (ARO)**	As per AD Operator
6	**MET Briefing Office**	See Remarks
7	**ATS**	As per AD Operator
8	**Fuelling**	As per AD Operator
9	**Handling**	As per AD Operator
10	**Security**	As per AD Operator
11	**De-icing**	As per AD Operator

12	**Remarks**	AD Operator AVBL outside published HR, 24 HR PN to AD Operator ATS AVBL outside published HR, 24 HR PN to AD Operator PIB AVBL from AIS, Shannon see GEN 3.1.5 MET briefing AVBL from Central Aviation Office, Shannon Airport see GEN 3.5.4 Airport PPR to non-based operators. Phone: Operations +353 51 84 66 00 Email: operations@waterfordairport.net

EIWF AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo handling facilities**	Contact airport operations
2	**Fuel/oil types**	JET A1; AVGAS
3	**Fuelling facilities/capacity**	2 JET A1 Trucks - Capacity 18,000L 1 AVGAS Mobile Unit 2,000L Storage capacity - Jet A1 100,000L Storage capacity - AVGAS 50,000L
4	**De-icing facilities**	Nil
5	**Hangar space available for visiting aircraft**	Limited – Contact AD Operator
6	**Repair facilities for visiting aircraft**	Shamrock Aviation Phone:+ 353 51 87 28 09
7	**Remarks**	Handling services available, contact Waterford Operations. AVGAS available up to 30 mins before evening closing time or later by prior arrangement only.

EIWF AD 2.5 PASSENGER FACILITIES

1	**Hotel(s) at or in the vicinity of AD**	Waterford
2	**Restaurant(s) at or in the vicinity of AD**	Nil.
3	**Transportation possibilities**	Taxis and Car Hire from the AD (Prior notice required). Train from Waterford.
4	**Medical facilities**	First Aid at AD. Hospitals in Waterford.
5	**Bank and Post Office at or in the vicinity of AD**	Waterford
6	**Tourist Office**	Waterford
7	**Remarks**	Nil

EIWF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	CAT 2. Up to CAT 6 AVBL with 24 HR PN required to Operations
2	**Rescue equipment**	Rescue and Emergency equipment for up to CAT 6
3	**Capability for removal of disabled aircraft**	Operators to make own arrangements through IATA pool or other organisations. Recovery assistance available through local contractors, up to 20,000kg Contact the Airport Co-ordinator: +353 (0)51 846600

4	**Remarks**	Fire cover available during operating hours. 24 HR PN required to AD Duty Supervisor for services outside of operating hours.

EIWF AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	**Type(s) of clearing equipment**	1 runway snow plough 1 runway sweeper 1 snow blower 1 runway de icer
2	**Clearance priorities**	Search and Rescue apron area, RWY 03/21 and associated TWY's
3	**Use of Material for movement area surface treatment**	(KFOR) Potassium Formate Fluids as required
4	**Specially prepared winter runways**	Not applicable
5	**Remarks**	Global Reporting Format - ATS communications for Global Reporting Format for Runway surface conditions. Runway surface conditions not reported by ATIS. Flight crew will be provided with the latest Runway surface conditions from ATS on first contact.

EIWF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA

1	**Apron surface and strength**	Surface: CONC / Strength: PCN 19/F/C/Y/T			
2	**Taxiway width, surface and strength**	TAXIWAY	WIDTH	SURFACE	STRENGTH
		A	15 M	ASPH	PCN 19/F/C/Y/T
		B	15 M	ASPH	PCN 19/F/C/Y/T
3	**Altimeter checkpoint location and elevation**	Location: Terminal Apron / Elevation: NIL			
4	**VOR checkpoint**	Nil			
5	**INS checkpoint**	Nil			
6	**Remarks**	TWY B restricted to Code A fixed wing and helicopter aircraft only.			

EIWF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Taxiing Guidance System Signboards at intersection of TWY and RWY and at the Holding Point.
2	**RWY/TWY markings and LGT**	RWY Marked: Designator, THR, TDZ, C/L Lighted: RWY edge, RWY end, PAPI, Displaced Thresholds TWY Marked: Centreline, Holding position. Lighted: Edge.
3	**Stop bars**	Nil
4	**Other RWY Protection measures**	-

5	**Remarks**	Nil

EIWF AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	**OBST Type**	**OBST Position**	**ELEV/HGT**	**Markings/Type, Colour**	**Remarks**
a	**b**	**c**	**d**	**e**	**f**
Air Navigation Obstacle (iaa.ie) - https://www.iaa.ie/commercial-aviation/airspace/air-navigation-obstacles					

In Area 3					
OBST ID/ Designation	**OBST Type**	**OBST Position**	**ELEV/HGT**	**Markings/Type, Colour**	**Remarks**
a	**b**	**c**	**d**	**e**	**f**
Air Navigation Obstacle (iaa.ie) - https://www.iaa.ie/commercial-aviation/airspace/air-navigation-obstacles					

EIWF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	Central Aviation Office, Shannon Airport see GEN 3.5.4
2	**Hours of service**	Refer to EIWF AD 2.3
3	**Office responsible for TAF preparation** **Periods of validity** **Interval of issuance.**	Met Eireann Central Aviation Office, Shannon. 9 HR 3 HR
4	**Trend forecast** **Interval of issuance**	 Nil
5	**Briefing/consultation provided**	Personal
6	**Flight documentation** **Language(s) used**	Charts and Tabular English
7	**Charts and other information available for briefing or consultation**	Hourly Synoptic Chart; 6-hourly synoptic chart; 6-hourly prognostic chart (surface); prognostic chart of significant weather; prognostic chart of wind/temperature at upper levels; prognostic chart of tropopause levels.
8	**Supplementary equipment available for providing information**	Automated Weather Station at Waterford AD. EIWF METAR available on URL: http://www.waterfordairport.ie/weather Phone:+ 353 51 87 70 00 HR as per ATS.
9	**ATS units provided with information**	EIWF TWR
10	**Additional information (limitation of service, etc.)**	METAR available every 30 mins. GEN 3.5.4.2 for additional information

EIWF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR Geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03	021.01°	1433 x 30	PCN 30/F/C/Y/T ASPH	521054.98N 0070524.89W 521135.57N 0070459.53W 184 ft	26 M /86 ft
21	201.01°	1433 x30	PCN 30/F/C/Y/T ASPH	521131.24N 0070502.24W 521052.27N 0070526.59W 184 ft	34.4 M /113 ft

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RWY End Safety Area dimensions (M)	Location and description of Arresting System	OFZ	Remarks
7	8	9	10	11	12	13	14
Refer to Aerodrome Obstruction Chart Type A	Nil	Nil	1553 x 150	-	-	Nil	Grooved Surface
	Nil	Nil	1553 x 150	-	-	Nil	Grooved Surface

EIWF AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
03	1433	1433	1433	1343	THR 03 DISPLACED 90 M
21	1433	1433	1433	1290	THR 21 DISPLACED 143 M

EIWF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ Length	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	SALS 420M, 1 crossbar at 300M	G	PAPI, Left Slope 3° MEHT 26.0 ft	Nil	Nil	White 60 M Amber 450 M from runway end	R	Nil	Nil

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ Length	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
21	CAT I 750 M 4 crossbars	G	PAPI, Left Slope 3.25° MEHT 26.0 ft	Nil	Nil	White 60 M Amber 450 M from runway end	R	Nil	PAPI RWY 21 not to be used for approach slope guidance until the aircraft is aligned with the runway, as normal obstacle clearance is not provided to the west of the runway extended centre-line.

EIWF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	**ABN/IBN location, characteristics and hours of operation**	At Tower, FLG W/G, 30 per minute As per AD Operator EIWF AD 2.3.
2	**LDI location and LGT** **Anemometer location and LGT**	WDI Near THR 21 lighted Near THR 21 lighted
3	**TWY edge and centre line lighting**	Blue TWY Edge Only
4	**Secondary power supply/switch-over time**	Secondary Power Supply to all Lighting at AD/Switch-over 12 seconds.
5	**Remarks**	Nil

EIWF AD 2.16 HELICOPTER LANDING AREA

NIL

EIWF AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	Waterford Control Zone Circle radius 10NM 521114N 0070513W (Waterford ARP)
2	**Vertical limits**	5000 ft AMSL
3	**Airspace classification**	C G (outside hours of operation of ATC)
4	**ATS unit call sign Language(s)**	Waterford Tower Waterford Information (during the hours of AFIS operation) English
5	**Transition altitude**	5000 ft
6	**Hours of applicability**	-

7	**Remarks**	Outside the promulgated hours of operation of the Waterford Control Zone, the following airspace: Waterford Airport - Circle radius 10NM 521114N 0070513W centered on the Waterford Aerodrome Reference Point, surface to 5000 feet AMSL is classified as Class G airspace. During these periods, an Aerodrome Flight Information Service (AFIS) **may** be provided and IFR holding, approach and departure procedures for SAR Operations may take place at Waterford Airport. Outside the promulgated Aerodrome hours of operation of Waterford Airport, an AFIS may be provided at short notice, in support of helicopters on SAR/HEMS/Training missions based at Waterford Airport *NOTE: Instrument Procedures are only available when an Air Traffic Control Service is being provided, **unless** an operator is authorised by the Flight Operating Standards Department of the Irish Aviation Authority and Waterford Airport Management.* Pilots will be provided by Waterford AFIS, Callsign "Waterford INFORMATION", with an Aerodrome Flight Information and Alerting Service while operating in the local airspace. Pilots are responsible for their own separation while operating in Class G - Uncontrolled Airspace. The hours of operation of AFIS are promulgated by NOTAM. Times may vary to support helicopters on SAR/HEMS missions based at Waterford Airport. **Airspace Status** This airspace is designated as a Transponder Mandatory Zone (TMZ) and Radio Mandatory Zone (RMZ), during the hours when an Aerodrome Flight Information Service is provided Refer to EIWF AD.2.20.8

EIWF AD 2.18 ATS COMMUNICATIONS FACILITIES

Service designation	Call sign	Channel	SAT VOICE No.	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	Waterford Tower	129.850 MHz	-	-	Refer to EIWF AD 2.3 AD Operator	Nil
GND	Waterford Ground	121.600 MHz	-	-		As directed by ATC
AFIS	Waterford Information	129.850 MHz	-	-		When ATC not available. Check NOTAM and refer to ATIS.
ATIS	Waterford ATIS	121.150 MHz	-	-		Nil

EIWF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, Type of supported OP (for VOR/ILS/ MLS/GNSS/ SBAS and GBAS, give declination)	ID	Frequency Channel	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service Volume Radius from the GBAS Reference Point	Remarks
1	2	3	4	5	6	7	8
DME	IWD	110.9 kHz CH 46X	H24	521119.6N 0070502.0 W	110 ft		Designated Operational Coverage 25 DME reads Zero at RWY 21 THR. DME reads 0.3D at RWY 03 THR. Monitored only during hours as per ATS
NDB	WTD	368.0 kHz	H24	521120.4N 0070500.0 W			Designated Operational Coverage 25NM Monitored only during hours as per ATS
ILS LLZ RWY 21	IWD	110.9 MHz	H24	521039.1N 0070534.8W			Monitored only during hours as per ATS
ILS GP RWY 21	IWD	330.8 MHz	H24	521123.2N 0070514.1 W			GP Angle 3.2º RDH 45 ft Full scale fly up indication may not be maintained when right of localizer sector and below glidepath. Glidepath flags may occur when right of centreline.

EIWF AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Landing, take off and manoeuvring on the aerodrome outside the published HR of operation of the aerodrome is not permitted unless such permission has been obtained in advance from aerodrome operations or is in the event of an emergency or a search and rescue (SAR) operation.

2. A booking system exists for instrument training, training periods may be booked by application to ATC

Phone:+ 353-51-846600

Fax: + 353-51-871701

Email: atc@waterfordairport.net

The filing of a flight plan does not constitute a booking. Failure to make a booking may result in the aircraft being refused the use of the facilities.

Pilots are requested to advise aerodrome operations of booking cancellations.

3. A booking procedure for all circuit training flights may be introduced by ATS during busy periods.

4. Aircrew and personnel are required to wear high visibility clothing at all times when airside.

5. Individuals or operators intending to base aircraft at the aerodrome must seek the prior written approval of the Airport Manager.

6. Solo Student Pilots from non-Waterford based Flight Training Organisations (FTO) must contact ATS at +353 51 846613 prior to departing to Waterford for PPR and a briefing.

7. RWY 03/21, fixed wing aircraft are required to use the runway end turning areas for making 180 deg turns. Light

aircraft are exempt from this requirement.

8. **Equipment Requirements**

1. TMZ
All flights operating in the Waterford TMZ shall carry and operate SSR transponders capable of operating on Modes A and C or on Mode S, unless in compliance with alternative provisions prescribed by Waterford ATS that has been designated for the airspace as outlined above. Refer to Item 5 hereunder.

2. RMZ
All flights operating in the Waterford RMZ shall maintain continuous air-ground voice communication watch and establish two-way communication, as necessary, on the appropriate communication channel, unless in compliance with alternative provisions prescribed for that particular airspace by Waterford ATS. Refer to Item 4 hereunder.

3. RMZ Entry
The requirements for entry into an RMZ are detailed in SERA.6005 (a) as follows:
Before entering a radio mandatory zone, an initial call containing:

a. the designation of the station being called;

b. callsign;

c. type of aircraft;

d. position;

e. level;

f. the intentions of the flight;
And;

g. Other information as prescribed by the competent authority shall be made by pilots on the appropriate communication channel. [Ref EIWF AD 2.18]

Once this information has been passed to and acknowledged by AFIS, a pilot may enter the RMZ. However, if a pilot is requested to 'stand by' before the required information is passed; they must remain outside of the RMZ. AFIS will resume communications with pilots as soon as possible after having instructed them to 'stand by'.

Whilst operating within an RMZ pilots are required to continuously monitor the published frequency. This is to raise situational awareness for all and offers a means of communication between pilot and AFIS if required.

Waterford AFIS may additionally instruct an aircraft with a functioning transponder to squawk an appropriate code.

4. Radio and/or Transponder Failure

4.1 A VFR flight experiencing radio failure prior to entry into the RMZ is required to remain outside the RMZ and route to their alternate aerodrome. The pilot shall contact Waterford Air Traffic Services +353 51 846613 as soon as practicable on landing.

4.2 A VFR flight experiencing radio failure whilst inside the RMZ is required to route to,

4.2.1 If approaching from the East route via Baginbun Head not above 1,500 ft to the Belle Lake Hold and await light signals from Waterford AFIS,

4.2.2 If approaching from the West, route via Bunmahon not above 1,500 ft to the Tramore Racecourse Hold and await light signals from Waterford AFIS.

4.3 SAR aircraft on an IFR flight experiencing radio failure are required to follow Rule 31 Communications Failure, AIP Ireland ENR 1.3 INSTRUMENT FLIGHT RULES.

4.4 An aircraft experiencing transponder failure shall advise Waterford AFIS as soon as practicable when aware of the failure. Prevailing traffic conditions may delay TMZ entry/departure.

4.5 Aircraft experiencing both Radio and Transponder failure are required to follow Parts 4.1, 4.2, 4.3 as

appropriate to their flight rules.

5. Non-Radio Aircraft & Non-Transponder Aircraft
Pilots of aircraft which are neither non-transponder nor non-radio equipped must contact Waterford Air Traffic Services +353 51 846613 in order to seek agreement to operate within the TMZ.
Prevailing traffic conditions may preclude TMZ entry agreement to non-transponder aircraft (or an aircraft with a non-functioning transponder) to operate within the TMZ.
Ref:
SERA.6005 Requirements for communications and SSR transponder.
SERA.13001 Operation of a transponder.
SERA 13020 SSR transponder failure when the carriage of a transponder is mandatory

EIWF AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

EIWF AD 2.22 FLIGHT PROCEDURES

1. Arrival Procedures

Clearance to enter the CTR.Arrival routes may be varied at the discretion of ATC.

Arrival Routes are based on holding patterns established at Waterford.

Shannon ATS will descend arriving traffic to the lowest usable flight level within controlled airspace (FL080 / Shannon Transition level if higher).

A lower level/altitude within controlled airspace may be coordinated with Waterford ATC.

Descent into the FIR (Class G Uncontrolled airspace)
Caution: Descent below FL080 or Transition level if higher, before the lateral limits of the Control Zone or associated stubs as outlined in ENR 2.1 will bring the flight into Shannon Class G (uncontrolled) airspace. There may be traffic operating in this airspace that is unknown and not operating with a transponder. Such descent, if requested, may be given at pilot's discretion with a clearance to re-enter controlled airspace at or descending to a specified level/altitude agreed with ATC. Flight information in the FIR is available from Shannon ATS on 127.500 MHz

2. Communication Failure

In the event of communication failure, the pilot shall act in accordance with the communication failure procedures in ICAO Annex 2.

3. Departure Procedures

AD not available for departures when official met visibility is below 550m, SAR aircraft exempt.

4. EIWF Instrument Approach Procedures

ILS CAT 1, LOC RWY 21 and NDB RWY 03 Instrument Approach only available when Air Traffic Control Zone is active unless the operator has prior approval from the Irish Aviation Authority and Waterford Airport Management.

EIWF AD 2.23 ADDITIONAL INFORMATION

Caution Wind Shear may be experienced under certain conditions on the approaches to RWY 21.

EIWF AD 2.24 CHARTS RELATED TO AERODROME

Name	Page
Aerodrome Chart – ICAO	EIWF AD 2.24-1
Aerodrome Obstacle Chart RWY 03/21– ICAO TYPE A	EIWF AD 2.24-2

Name	Page
Instrument Approach Chart ILS CAT I or LOC RWY 21	EIWF AD 2.24-3
Instrument Approach Chart NDB/DME RWY 21 – ICAO	EIWF AD 2-24-5
Instrument Approach Chart NDB/DME RWY 03 – ICAO	EIWF AD 2-24-6
Visual Approach Chart – ICAO	EIWF AD 2.24-7
Instrument Approach Chart RNP RWY 02 - ICAO	EIWF AD 2.24-8
Instrument Approach Chart RNP RWY 20 - ICAO	EIWF AD 2.24-9

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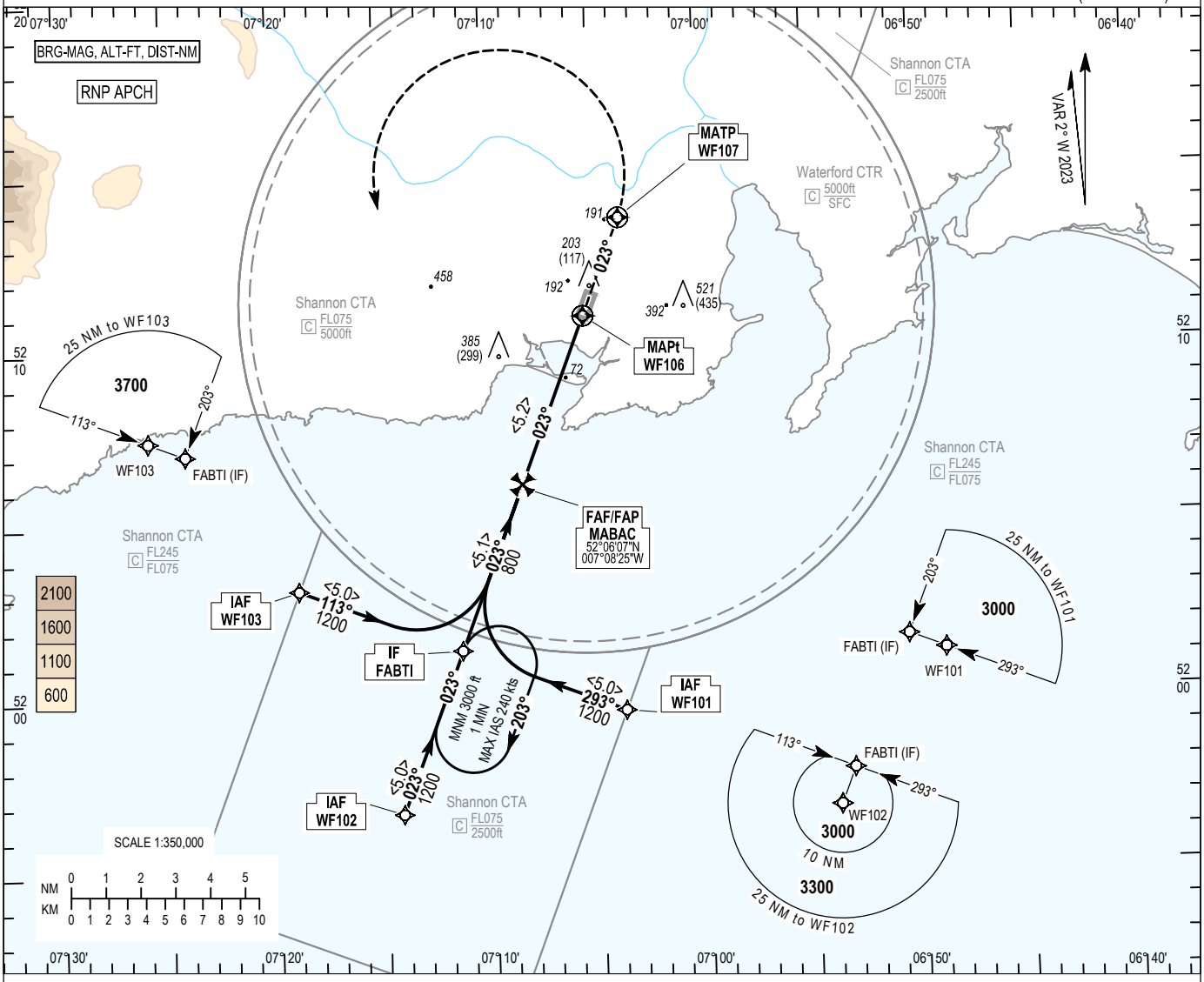
INSTRUMENT APPROACH CHART- ICAO

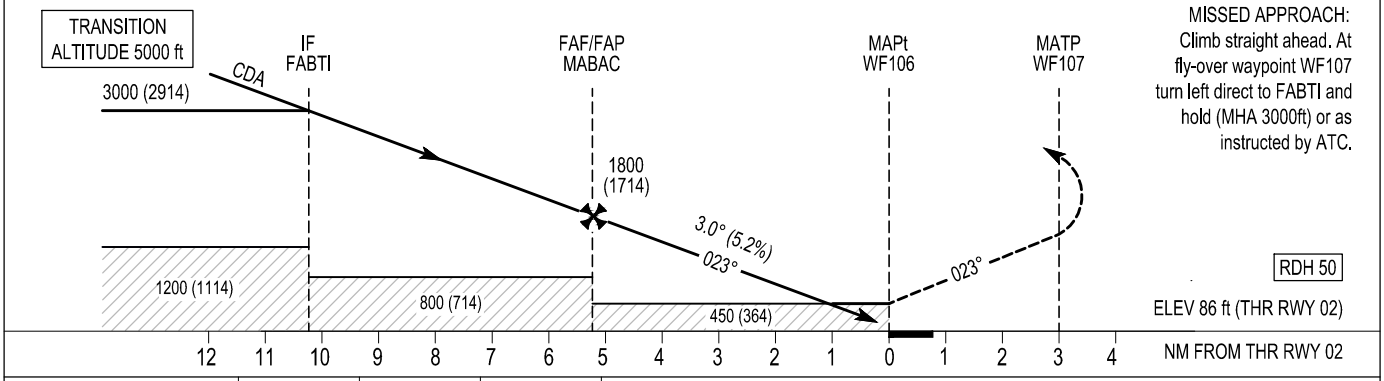
AERODROME ELEV 119 ft
HEIGHTS RELATED TO THR RWY 02 - ELEV 86 ft

Waterford TWR 129.850
Waterford GND 121.600
Waterford ATIS 121.150

SBAS
CH 48474
E02A

WATERFORD / WATERFORD
RNP RWY 02
(ACFT CAT A, B, C)
MNM TEMP -10°C (BARO VNAV)
MAX TEMP 50°C (BARO VNAV)





MISSED APPROACH:
Climb straight ahead. At fly-over waypoint WF107 turn left direct to FABTI and hold (MHA 3000ft) or as instructed by ATC.

OCA (H)	A	B	C
LNAV	450 (364)		
LNAV / VNAV	330 (244)	340 (254)	350 (264)
LPV	334 (248)	344 (258)	354 (268)
Visual Manoeuvring (Heights AAL)	640 (521)	790 (671)	940 (821)

NOTE: NIL

Recommended LNAV Profile on Final Approach

DIST THR RWY 02 (NM)	5	4	3	2	1
ALT / HT (ft)	1730 (1644)	1410 (1324)	1090 (1004)	770 (684)	450 (364)

Ground Speed	kts	80	100	120	140	160
Descent rate gradient - 5.2% (3.0°) 318 ft/NM	ft / min	430	530	640	740	850

CHANGE: New Chart.

Waterford RNP RWY02 via WF101

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	WF101	515935.0 / 0070348.4	IF	-	-	-	- / +A3000	-	-	-
RNP APCH	FABTI	520122.7 / 0071121.4	TF	Fly-By	291.1 / 293	5.0	- / +A3000	-	-	-
RNP APCH	MABAC	520606.8 / 0070824.6	TF	Fly-By	021.0 / 023	5.1	-	-	-	Turn R
RNP APCH	WF106	521055.0 / 0070524.9	TF	Fly-Over	021.0 / 023	5.2	-	-	3.0 / 50	-
RNP APCH	WF107	521342.8 / 0070340.1	CF	Fly-Over	021.0 / 023	-	-	-	-	021° WTD / D2.4 IWD
RNP APCH	FABTI	520122.7 / 0071121.4	DF	Fly-By	-	-	- / +A3000	-	-	Turn L

Waterford RNP RWY02 via WF102

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	WF102	515643.0 / 0071415.3	IF	-	-	-	- / +A3000	-	-	-
RNP APCH	FABTI	520122.7 / 0071121.4	TF	Fly-By	021.0 / 023	5.0	- / +A3000	-	-	-
RNP APCH	MABAC	520606.8 / 0070824.6	TF	Fly-By	021.0 / 023	5.1	-	-	-	-
RNP APCH	WF106	521055.0 / 0070524.9	TF	Fly-Over	021.0 / 023	5.2	-	-	3.0 / 50	-
RNP APCH	WF107	521342.8 / 0070340.1	CF	Fly-Over	021.0 / 023	-	-	-	-	021° WTD / D2.4 IWD
RNP APCH	FABTI	520122.7 / 0071121.4	DF	Fly-By	-	-	- / +A3000	-	-	Turn L

Waterford RNP RWY02 via WF103

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	WF103	520309.8 / 0071855.1	IF	-	-	-	- / +A3700	-	-	-
RNP APCH	FABTI	520122.7 / 0071121.4	TF	Fly-By	110.9 / 113	5.0	- / +A3000	-	-	-
RNP APCH	MABAC	520606.8 / 0070824.6	TF	Fly-By	021.0 / 023	5.1	-	-	-	Turn L
RNP APCH	WF106	521055.0 / 0070524.9	TF	Fly-Over	021.0 / 023	5.2	-	-	3.0 / 50	-
RNP APCH	WF107	521342.8 / 0070340.1	CF	Fly-Over	021.0 / 023	3.0	-	-	-	021° WTD / D2.4 IWD
RNP APCH	FABTI	520122.7 / 0071121.4	DF	Fly-By	-	-	- / +A3000	-	-	Turn L

Hold Identification – FABTI

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude (ft)	Maximum Holding Level (FL)	Outbound time (min)	Direction of Turn
FABTI	520122.7 / 0071121.4	020.97	023	240	+A3000	FL075	1	R

SBAS FAS Data Block Coding Data
Waterford RNP RWY02

Input Data	
Operation Type	0
Service Provider	1 (EGNOS)
Airport Identifier	EIWF
Runway	02
Runway Direction	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E02A
LTP / FTP Latitude	521054.9800N
LTP / FTP Longitude	0070524.8900W
LTP / FTP Ellipsoidal Height	82.6 m
FPAP Latitude	521146.1740N
Delta FPAP Latitude	51.1940 seconds
FPAP Longitude	0070452.9020W
Delta FPAP Longitude	31.9880 seconds
Threshold Crossing Height	50
TCH Units Selector	0 (feet)
Glidepath Angle	3.00 °
Course Width	105 m
Length Offset	352 m
HAL	40 m
VAL	35 m
Output Data	
Data Block	10 06 17 09 05 02 00 00 01 32 30 05 08 E1 64 16 CC 0A F5 FC 3A 17 F4 8F 01 E8 F9 00 F4 01 2C 01 64 2C C8 AF D8 89 20 AD
Calculated CRC Value	D88920AD
Required Additional Data (not CRC wrapped)	
ICAO Code	EI
LTP/FTP Orthometric Height	26.33 m
FPAP Orthometric Height (metres)	26.33
SBAS EGNOS Channel	48474

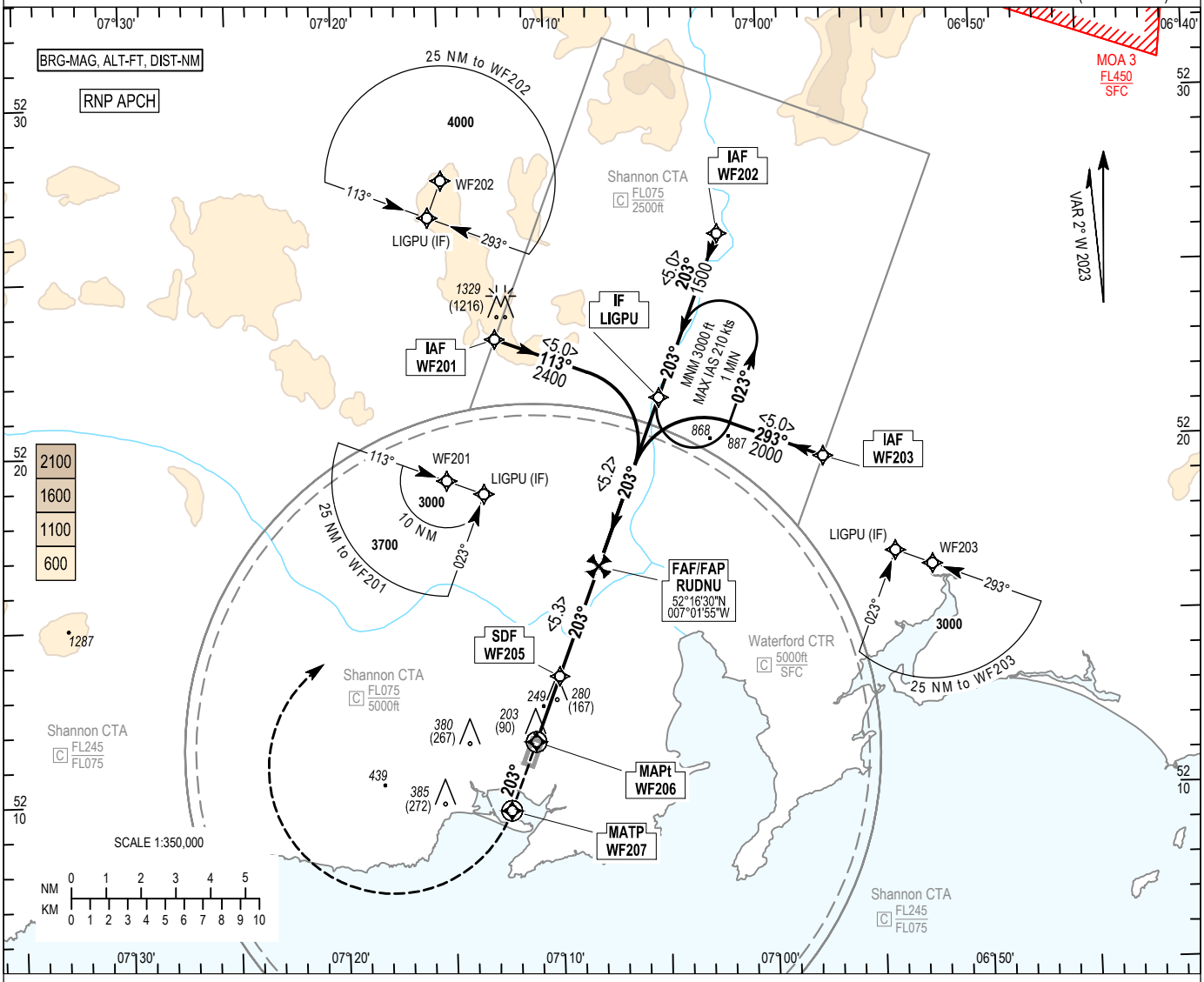
INSTRUMENT APPROACH CHART- ICAO

AERODROME ELEV 119 ft
HEIGHTS RELATED TO THR RWY 20 - ELEV 113 ft

Waterford TWR 129.850
Waterford GND 121.600
Waterford ATIS 121.150

SBAS
CH 60002
E20A

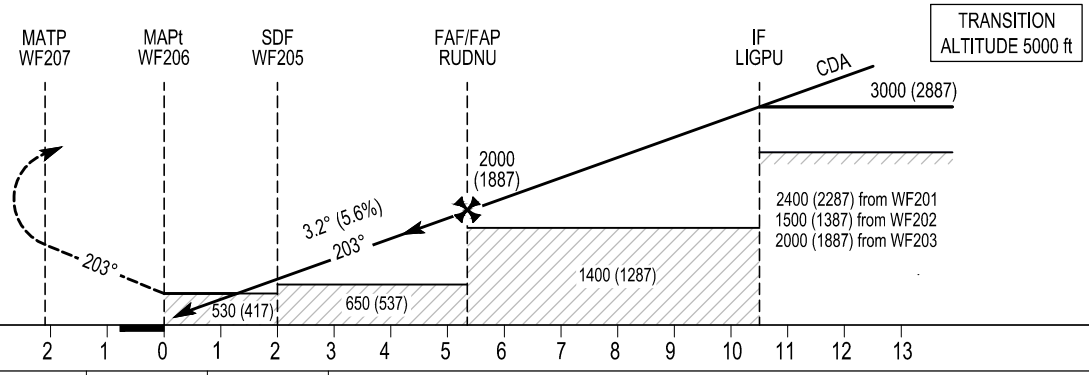
WATERFORD / WATERFORD
RNP RWY 20
(ACFT CAT A, B, C)
MNM TEMP -10°C (BARO VNAV)
MAX TEMP 40°C (BARO VNAV)



MISSED APPROACH:
Climb straight ahead. At fly-over waypoint WF207 turn right direct to LIGPU and hold (MHA 3000ft) or as instructed by ATC.

RDH 45

ELEV 113 ft (THR RWY 20)



OCA (H)	A	B	C
LNAV	530 (417)		
LNAV / VNAV	420 (307)	430 (317)	
LPV	380 (267)	390 (277)	400 (287)
Visual Manoeuvring (Heights AAL)	640 (521)	790 (671)	940 (821)

NOTE:
1. The Visual Segment Surface (VSS) is penetrated by vegetation (trees) on the right side of the final approach track.

Recommended LNAV Profile on Final Approach

DIST THR RWY 20 (NM)	2	3	4	5
ALT / HT (ft)	840 (727)	1180 (1067)	1520 (1407)	1860 (1747)

Ground Speed	kts	80	100	120	140	160
Descent rate gradient - 5.6% (3.2°) 340 ft/NM	ft / min	450	570	680	790	900

CHANGE: New chart.

Waterford RNP RWY20 via WF201

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	WF201	522305.8 / 0070631.7	IF	-	-	-	- / +A3000	-	-	-
RNP APCH	LIGPU	522118.5 / 0065854.3	TF	Fly-By	110.9 / 113	5.0	- / +A3000	-	-	-
RNP APCH	RUDNU	521630.4 / 0070155.0	TF	Fly-By	201.0 / 203	5.2	-	-	-	Turn R
RNP APCH	WF205	521323.1 / 0070352.3	TF	Fly-By	201.0 / 203	3.3	-	-	-	-
RNP APCH	WF206	521131.2 / 0070502.2	TF	Fly-Over	201.0 / 203	2.0	-	-	3.2 / 45	-
RNP APCH	WF207	520933.8 / 0070615.7	CF	Fly-Over	201.0 / 203	-	-	-	-	206° WTD / D1.2 IWD
RNP APCH	LIGPU	522118.5 / 0065854.3	DF	Fly-By	-	-	- / +A3000	-	-	Turn R

Waterford RNP RWY20 via WF202

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	WF202	522558.2 / 0065558.6	IF	-	-	-	- / +A4000	-	-	-
RNP APCH	LIGPU	522118.5 / 0065854.3	TF	Fly-By	201.0 / 203	5.0	- / +A3000	-	-	-
RNP APCH	RUDNU	521630.4 / 0070155.0	TF	Fly-By	201.0 / 203	5.2	-	-	-	-
RNP APCH	WF205	521323.1 / 0070352.3	TF	Fly-By	201.0 / 203	3.3	-	-	-	-
RNP APCH	WF206	521131.2 / 0070502.2	TF	Fly-Over	201.0 / 203	2.0	-	-	3.2 / 45	-
RNP APCH	WF207	520933.8 / 0070615.7	CF	Fly-Over	201.0 / 203	-	-	-	-	206° WTD / D1.2 IWD
RNP APCH	LIGPU	522118.5 / 0065854.3	DF	Fly-By	-	-	- / +A3000	-	-	Turn R

Waterford RNP RWY20 via WF203

Nav. Spec.	WPT Name	Latitude (N) / Longitude (W)	Path Term	Fly-By Fly-Over	True track / Mag track (°)	Distance (NM)	Upper limit / Lower limit (ft)	Speed limit (kts)	VPA (°) / TCH (ft)	Remarks
RNP APCH	WF203	521930.8 / 0065117.5	IF	-	-	-	- / +A3000	-	-	-
RNP APCH	LIGPU	522118.5 / 0065854.3	TF	Fly-By	291.1 / 293	5.0	- / +A3000	-	-	-
RNP APCH	RUDNU	521630.4 / 0070155.0	TF	Fly-By	201.0 / 203	5.2	-	-	-	Turn L
RNP APCH	WF205	521323.1 / 0070352.3	TF	Fly-By	201.0 / 203	3.3	-	-	-	-
RNP APCH	WF206	521131.2 / 0070502.2	TF	Fly-Over	201.0 / 203	2.0	-	-	3.2 / 45	-
RNP APCH	WF207	520933.8 / 0070615.7	CF	Fly-Over	201.0 / 203	-	-	-	-	206° WTD / D1.2 IWD
RNP APCH	LIGPU	522118.5 / 0065854.3	DF	Fly-By	-	-	- / +A3000	-	-	Turn R

Hold Identification – LIGPU

Holding Fix	Latitude (N) / Longitude (W)	Inbound True Track (degrees)	Inbound Mag Track (degrees)	Maximum Indicated Airspeed (kts)	Minimum Holding Altitude (ft)	Outbound time (min)	Direction of Turn
LIGPU	522118.5 / 0065854.3	201.03	203	210	+A3000	1	L

SBAS FAS Data Block Coding Data
Waterford RNP RWY20

Input Data	
Operation Type	0
Service Provider	1 (EGNOS)
Airport Identifier	EIWF
Runway	20
Runway Direction	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E20A
LTP / FTP Latitude	521131.2400N
LTP / FTP Longitude	0070502.2400W
LTP / FTP Ellipsoidal Height	90.2 m
FPAP Latitude	521040.0460N
Delta FPAP Latitude	-51.1940 seconds
FPAP Longitude	0070534.2245W
Delta FPAP Longitude	-31.9845 seconds
Threshold Crossing Height	45
TCH Units Selector	0 (feet)
Glidepath Angle	3.20°
Course Width	105 m
Length Offset	408 m
HAL	40 m
VAL	35 m
Output Data	
Data Block	10 06 17 09 05 14 00 00 01 30 32 05 50 FC 65 16 C0 BB F5 FC 89 17 0C 70 FE 1F 06 FF C2 01 40 01 64 33 C8 AF F7 C9 2C 74
Calculated CRC Value	F7C92C74
Required Additional Data	
ICAO Code	EI
LTP/FTP Orthometric Height	34.35 m
FPAP Orthometric Height (metres)	34.35
SBAS EGNOS Channel	60002