

TELLUS AIRBORNE GEOPHYSICAL SURVEY

DATA RELEASE

TELLUS_MERGE_2022

March 2022

1. TELLUS SURVEY TO DATE

Tellus airborne survey operations over the island of Ireland started in 2005 in Northern Ireland. The survey has continued to the south and currently covers 87% of the island. The latest survey block A9 Block (south-central of Ireland), was commenced on 25 July 2021, completed on 21 September 2022 by Sander Geophysics Ltd (SGL) and the final data have now been delivered. Figure 1 shows all completed Tellus survey blocks to date. All data blocks have been merged into one coherent block and are released now as “Merge2022”.

A total of 79,848 km² are currently covered over the island of Ireland in Merge2022, including coastal (offshore) areas. The area covered onshore for the island of Ireland is 73,530 km² (excluding overlapping zones and Dublin city). 87% of the island of Ireland is therefore covered by airborne data in this merge. The airborne coverage of the Republic of Ireland is 56,637 km² (excluding offshore areas and Dublin city), which provides approximately 81% coverage for the Republic of Ireland.

The survey technical specifications are listed in Table 1.

Survey specification highlights are:

- 1) Three geophysical data types collected:
 - Magnetics (single sensor: total magnetic intensity).
 - Gamma-ray spectrometer (total-count and potassium, equivalent uranium and equivalent thorium concentrations).
 - Frequency domain electromagnetics (four-frequencies: 912, 3005, 11962 and 24510 Hz, in-phase and quadrature EM responses and resistivity transforms).
- 2) Flight-line spacing: 200 m.

- 3) Flight altitude (ground clearance): nominal 60 m, increasing to 214 m over sensitive areas (e.g., livestock farms) and 305 m over larger population centres.
- 4) Along-line measurement spacing: nominal 6 m (for magnetics and electromagnetics) and nominal 60 m (for gamma-ray spectrometer).

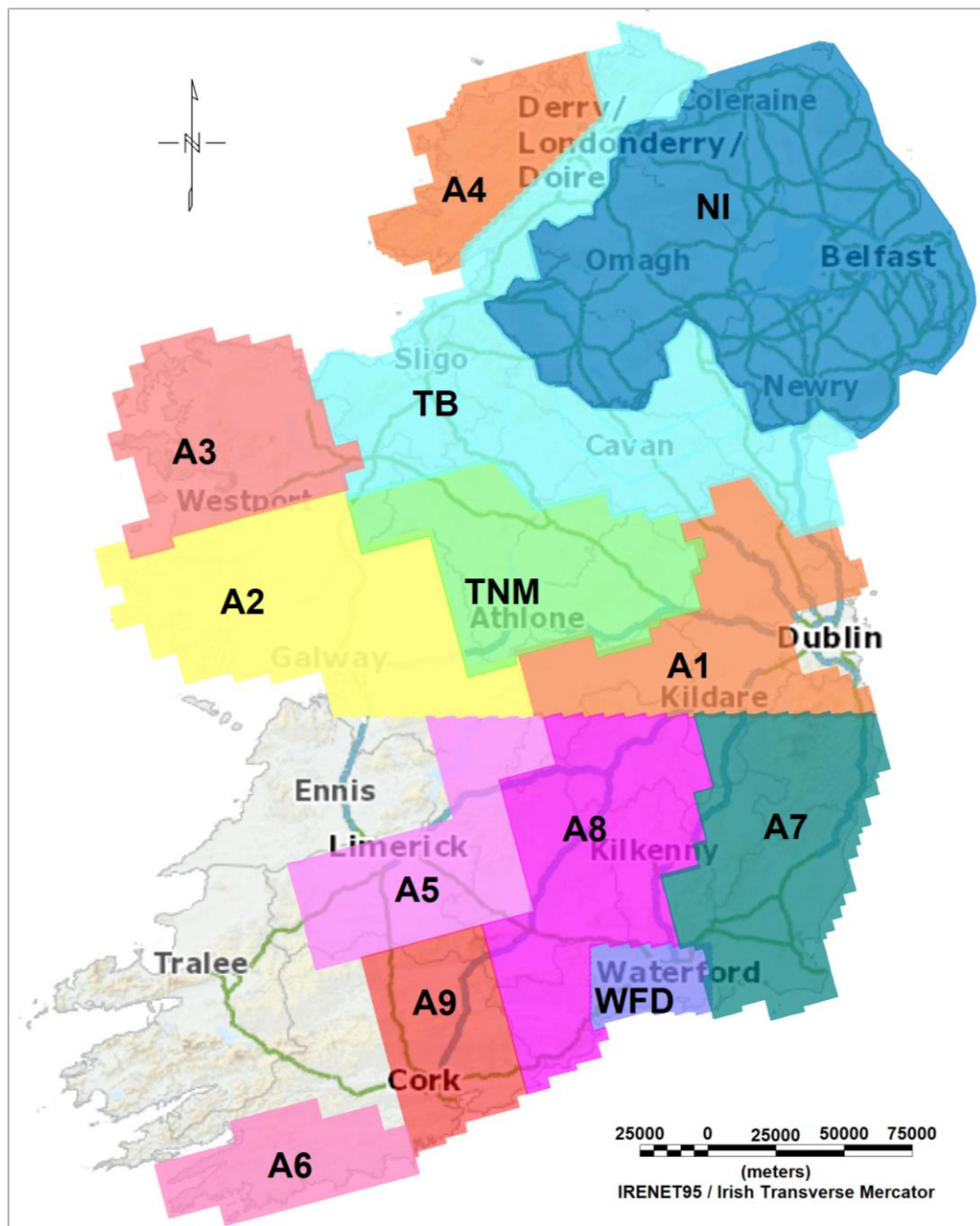


Figure 1. All Tellus airborne survey blocks completed to date, both in the Republic of Ireland and Northern Ireland, and released as one block, Merge2022.

Table 1. Summary of survey technical specifications: Tellus Airborne data (island of Ireland).

Geophysical Contractor	1. JAC (NI, CAV) 2. Sander Geophysics Limited (SGL): A1 to A9, TB, Waterford 3. CGG: Tellus North Midlands
Survey Start Date	July 2005 (JAC)
Survey End Date	21 st September, 2021 (A9) (to date)
Aircraft Type	De Havilland DHC-6 Twin Otter
Total line kilometres	398,805 (merged data only, overlap line kilometers excluded)
Traverse Lines	
Number of Lines	10,266 excluding tie lines (merged data only)
Line Direction:	N15°W
Line Spacing	200 m
Survey Altitude	
Nominal	60 m
Sensitive Areas	214 m
Large Population Centres	305 m
Aircraft Ground Speed Nominal	60 m/s
Instruments Carried	
Magnetics	Single sensor (tail-mounted)
Gamma-Ray Spectrometer	Total-count, potassium, uranium, thorium windows
Frequency Domain Electromagnetics	Four frequency: 912, 3005, 11962 and 24510 Hz Two frequency (eastern part of NI only): 3125 and 14368 Hz.
Sample Rates	
Magnetics and Electromagnetics	1 Hz (nominal 6 m)
Gamma-ray Spectrometer	10 Hz (nominal 60 m)
Coordinate System	
Datum	IRENET95
Projection	Irish Transverse Mercator (ITM)

2. URLs FOR DATA DOWNLOAD

Line-based (see Section 3 for details) and grid-based (Section 4) versions of Merge2022 are released. Data and supporting documentation may be downloaded from the GSI website at the following URLs:

Magnetic line data and grids:

[GSI_Tellus_MAG_MERGE_DATA_2022.zip] and

[GSI_Tellus_MAG_MERGE_GRIDS_2022.zip]

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_MAG_MERGE_DATA_2022.zip

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_MAG_MERGE_GRID_S_2022.zip

Gamma-ray spectrometer line data and grids:

[GSI_Tellus_RAD_MERGE_DATA_2022.zip] and

[GSI_Tellus_RAD_MERGE_GRIDS_2022.zip]

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_RAD_MERGE_DATA_2022.zip

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_RAD_MERGE_GRIDS_2022.zip

Frequency domain electromagnetic line data and grids:

[GSI_Tellus_EM_MERGE_2F_DATA_2022.zip] and

[GSI_Tellus_EM_MERGE_2F_GRIDS_2022.zip]

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_EM_MERGE_2F_DATA_2022.zip

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_EM_MERGE_2F_GRIDS_2022.zip

[GSI_Tellus_EM_MERGE_4F_DATA_2022.zip] and

[GSI_Tellus_EM_MERGE_4F_GRIDS_2022.zip]

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_EM_MERGE_4F_DATA_2022.zip

https://gsi.geodata.gov.ie/downloads/Geophysics/Data/GSI_Tellus_EM_MERGE_4F_GRIDS_2022.zip

Survey technical report:

TELLUS_MERGE_2022_Logistics_Processing_Merging_Report_Mar2022.pdf

https://gsi.geodata.gov.ie/downloads/Geophysics/Reports/GSI_Tellus_TR_MERGE_2022_Mar22.pdf

For support and further information at GSI: Dr James Hodgson, Tellus Project Manager,
jim.hodgson@gsi.ie, +353 (0)1 6782742.

3. RELEASE INFORMATION FOR LINE DATA

Line based data for all flight lines are provided in ascii-format files, separately for each data type:

- **Magnetic data:**
[MAG_MERGE_2022_WEB1.XYZ], [MAG_MERGE_2022_WEB2.XYZ],
[MAG_MERGE_2022_WEB3.XYZ] and [MAG_MERGE_2022_WEB4.XYZ]
- **Gamma-ray spectrometer data:**
[RAD_MERGE_2022_WEB.XYZ]
- **Frequency domain electromagnetic data:**
 - A) EM_2F_MERGE_2022**
[EM_2F_MERGE_2022_WEB1.XYZ], [EM_2F_MERGE_2022_WEB2.XYZ],
[EM_2F_MERGE_2022_WEB3.XYZ], [EM_2F_MERGE_2022_WEB4.XYZ] and
[EM_2F_MERGE_2022_WEB5.XYZ]
 - B) EM_4F_MERGE_2022**
[EM_4F_MERGE_2022_WEB1.XYZ], [EM_4F_MERGE_2022_WEB2.XYZ],
[EM_4F_MERGE_2022_WEB3.XYZ], [EM_4F_MERGE_2022_WEB4.XYZ] and
[EM_4F_MERGE_2022_WEB5.XYZ]

The file format is suitable for direct import into Geosoft Oasis Montaj software or into any other software programme with an ascii, column-based import capacity. The data channel (column) descriptions for each data file are specified in the readme.txt files that accompany the data for each data type. For reference, the readme.txt files are included below in Section 5 (magnetic data), Section 6 (gamma-ray spectrometer data) and Section 7 (frequency domain electromagnetic data).

While the line-based data files contain a number of supplementary data channels (providing, e.g., flight altitude and date), the primary data channels of interest to the data user are likely to be:

- **Magnetics:**
 - “MAG_MERGE_2022” data channel – Merged magnetic field anomaly (in nT).
- **Gamma-ray spectrometer:**
 - “TC_MERGE_2022” – Final corrected Total Count data (in cps).
 - “K_MERGE_2022” – Final corrected Potassium Concentration (in %).
 - “TH_MERGE_2022” – Final corrected Equivalent Thorium Concentration (in ppm).
 - “U_MERGE_2022” – Final corrected Equivalent Uranium Concentration (in ppm).

- **Frequency domain electromagnetics:**
Resistivity models (derived using approximate, half-space resistivity transformations)
 - A) 2F_MERGE (island of Ireland)**
 - “RES3_MERGE_2022” – Merged Resistivity for 3 kHz frequency (in ohm.m).
 - “RES12_MERGE_2022” – Merged Resistivity for 12 kHz frequency (in ohm.m).
 - B) 4F_MERGE (Republic of Ireland)**
 - “RES09_MERGE_2022” – Merged Resistivity for 912 Hz frequency (in ohm.m).
 - “RES3_MERGE_2022” – Merged Resistivity for 3 kHz frequency (in ohm.m)
 - “RES12_MERGE_2022” – Merged Resistivity for 12 kHz frequency (in ohm.m).
 - “RES25_MERGE_2022” – Merged Resistivity for 25 kHz frequency (in ohm.m).

4. RELEASE INFORMATION FOR GRID DATA

Grids of the merged data are provided for selected data channels and may be located and downloaded at the URLs indicated above. Several file formats are provided: Geosoft Binary (.grd), Grid Exchange Format (.gxf) and georeferenced TIF (.tif). Data are gridded at a 50 m interval, using an Irish Transverse Mercator projection with IREN95 datum.

For reference, readme.txt files associated with the grid data are included below in Section 8 (magnetic data), Section 9 (gamma-ray spectrometer data) and Section 10 (frequency domain electromagnetic data).

- **Magnetics:**
 - “TELLUS_MAG_MERGE_2022 _TMI” Micro levelled Airborne Magnetic anomaly (nT).
 - “TELLUS_MAG_MERGE_2022_UP250_1VD” First vertical derivative of Micro levelled upward continued by 250 m and pole reduced Airborne Magnetic anomaly (in nT/m).
 - “TELLUS_MAG_MERGE_2022_UP250_TDR” Tilt derivative of Micro levelled upward continued by 250 m and pole reduced Airborne Magnetic anomaly
- **Gamma-ray spectrometer:**
 - “TELLUS_RAD_TC_MERGE_2022_COAST” – Corrected Total Count, de-lagged, micro-levelled and minimum limited to 0 (in c/s)
 - “TELLUS_RAD_K_MERGE_2022_COAST” – Corrected Potassium Concentration, de-lagged and minimum limited to 0 (in %)
 - “TELLUS_RAD_TH_MERGE_2022_COAST” – Equivalent Thorium Concentration (in ppm).

- “TELLUS_RAD_U_MERGE_2022_COAST” – Corrected Uranium Concentration, de-lagged, micro-levelled and minimum limited to 0 (in ppm).
- “TELLUS_RAD_TERNARY_MERGE_2022_COAST” – Radiometric ternary map obtained by combined percent-potassium, equivalent thorium and equivalent uranium (available only as .tif file).
- **Frequency domain electromagnetics:**
 - A) 2F_MERGE (island of Ireland)**
 - “TELLUS_EM_RES3_2F_MERGE_2022_COAST” Merged half-space model Resistivity for island of Ireland for 3 kHz (in ohm-m)
 - “TELLUS_EM_RES12_2F_MERGE_2022_COAST” Merged half-space model Resistivity for island of Ireland for 12 kHz in (ohm-m)
 - B) 4F_MERGE (Republic of Ireland)**
 - “TELLUS_EM_RES09_4F_MERGE_2022_COAST” Merged half-space model Resistivity for island of Ireland for 0.9 kHz in (ohm-m)
 - “TELLUS_EM_RES3_4F_MERGE_2022_COAST” Merged half-space model Resistivity for island of Ireland for 3 kHz in (ohm-m)
 - “TELLUS_EM_RES12_4F_MERGE_2022_COAST” Merged half-space model Resistivity for island of Ireland for 12 kHz in (ohm-m)
 - “TELLUS_EM_RES25_4F_MERGE_2022_COAST” Merged half-space model Resistivity for island of Ireland for 25 kHz in (ohm-m)

5. MAGNETIC LINE DATA README FILE [MAG_MERGE_2022_ReadMe.txt]

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This readme file relates to data from file: MAG_MERGE_2022_WEB1.XYZ, MAG_MERGE_2022_WEB2.XYZ, MAG_MERGE_2022_WEB3.XYZ and MAG_MERGE_2022_WEB4.XYZ
 Tellus Airborne magnetic geophysical data collected during 2005 and 2021 by Tellus Project.

Wordpad text editor is recommended to read the data correctly.

Data type: The data are contractor delivered and merged data

Contractor: Sander Geophysics Ltd, CGG and JAC

Client: Geological Survey Ireland (GSI)

Date of data release: 10 March 2022

For data queries please contact: tellus@gsi.ie

The data contain the channels described below:

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File Name: MAG_MERGE_2022_WEB1.XYZ, MAG_MERGE_2022_WEB2.XYZ, MAG_MERGE_2022_WEB3.XYZ and MAG_MERGE_2022_WEB4.XYZ

Name	Units	Description
X_ITM	m	X coordinate, IREN95 ITM
Y_ITM	m	Y coordinate, IREN95 ITM
DATE	-	Date YYYYMMDD
RALT	m	Clearance above Terrain
SID	-	Survey ID
MAG-MERGE_2022	nT	Merged Airborne Magnetic Field Anomaly

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6. GAMMA-RAY SPECTROMETER LINE DATA README FILE [RAD_MERGE_2022_ReadMe.txt]

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This readme file relates to data from file: RAD_MERGE_2022_WEB.XYZ

Airborne radiometric geophysical data collected during 2005 and 2021 by Tellus Project.

WordPad text editor is recommended to read the data correctly as specified in the read me file.

Data type: The data are contractor delivered and merged data

Contractor: Sander Geophysics Ltd, CGG and JAC

Client: Geological Survey Ireland (GSI)

Date of data release: 10 March 2022

For data queries please contact: tellus@gsi.ie

The data contain the channels described below:

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File Name: RAD_MERGE_2022_WEB.XYZ

Name	Units	Description
X_ITM	m	X coordinate, IREN95 ITM
Y_ITM	m	Y coordinate, IREN95 ITM
DATE	-	Date YYYYMMDD
CLEARANCE	m	Clearance above Terrain
SID	-	Survey ID
TC_MERGE_2022	counts/s	Corrected Total Count, de-lagged, micro-levelled and minimum limited to 0
K_MERGE_2022	%	Corrected Potassium Concentration, de-lagged and minimum limited to 0
U_MERGE_2022	ppm	Corrected Uranium Concentration, de-lagged, micro-levelled and minimum limited to 0
TH_MERGE_2022	ppm	Corrected Thorium Concentration, de-lagged and minimum limited to 0

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7. A) FREQUENCY DOMAIN ELECTROMAGNETIC LINE DATA README FILE [EM_2F_MERGE_2022_ReadMe.txt]

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This readme file relates to data from files: EM_2F_MERGE_2022_WEB1.XYZ, EM_2F_MERGE_2022_WEB2.XYZ, EM_2F_MERGE_2022_WEB3.XYZ, EM_2F_MERGE_2022_WEB4.XYZ and EM_2F_MERGE_2022_WEB5.XYZ

TELLUS Airborne 2 frequency electromagnetic geophysical data collected during 2005 and 2021 by Tellus Project.

WordPad text editor is recommended to read the data correctly as described in the read me file.

Data type: The data are contractor delivered and merged data

Contractor: Sander Geophysics Ltd, CGG and JAC

Client: Geological Survey Ireland (GSI)

Date of data release: 10 March 2022

For data queries please contact: tellus@gsi.ie

The data contain the channels described below:

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File Names: EM_2F_MERGE_2022_WEB1.XYZ, EM_2F_MERGE_2022_WEB2.XYZ, EM_2F_MERGE_2022_WEB3.XYZ, EM_2F_MERGE_2022_WEB4.XYZ and EM_2F_MERGE_2022_WEB5.XYZ

Name	Units	Description
X_ITM	m	X coordinate, IREN95 ITM
Y_ITM	m	Y coordinate, IREN95 ITM
DATE	-	Date YYYYMMDD
CLEARANCE	m	Clearance above terrain from Radar altitude and GPS
SID	-	Survey ID
RES3_MERGE_2022	ohm-m	Microlevelled and merged resistivity, half-space model for 3005 Hz by GSI, 3 KHz
RES12_MERGE_2022	ohm-m	Microlevelled and merged resistivity, half-space model for 11962 Hz by GSI, 12 KHz

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7. B) FREQUENCY DOMAIN ELECTROMAGNETIC LINE DATA README FILE [EM_4F_MERGE_2022_ReadMe.txt]

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This readme file relates to data from files: EM_4F_MERGE_2022_WEB1.XYZ, EM_4F_MERGE_2022_WEB2.XY and EM_4F_MERGE_2022_WEB3.XYZ, EM_4F_MERGE_2022_WEB4.XYZ and EM_4F_MERGE_2022_WEB5.XYZ

TELLUS Airborne 4 frequency electromagnetic geophysical data collected during 2011 and 2022 by GSI, GSNI, Tellus Project.

WordPad text editor is recommended to read the data correctly as described in the read me file.

Data type: The data are contractor delivered and merged data

Contractor: Sander Geophysics Ltd and CGG

Client: Geological Survey Ireland (GSI)

Date of data release: 10 March 2022

For data queries please contact: tellus@gsi.ie

The data contain the channels described below:

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File Names: EM_4F_MERGE_2022_WEB1.XYZ, EM_4F_MERGE_2022_WEB2.XYZ and EM_4F_MERGE_2022_WEB3.XYZ, EM_4F_MERGE_2022_WEB4.XYZ and EM_4F_MERGE_2022_WEB5.XYZ

Name	Units	Description
X_ITM	m	X coordinate, IRENET95 ITM
Y_ITM	m	Y coordinate, IRENET95 ITM
DATE	-	Date YYYYMMDD
CLEARANCE	m	Clearance Above terrain from Laser and Radar
SID	-	Survey ID
RES09_MERGE_2022	ohm-m	Microlevelled and merged resistivity, half-space model for 912 Hz by GSI
RES3_MERGE_2022	ohm-m	Microlevelled and merged resistivity, half-space model for 3005 Hz by GSI
RES12_MERGE_2022	ohm-m	Microlevelled and merged resistivity, half-space model for 11962 Hz by GSI
RES25_MERGE_2022	ohm-m	Microlevelled and merged resistivity, half-space model for 24510 Hz by GSI

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8. MAGNETIC GRID DATA README FILE [MAG_MERGE_2022_ReadME_GRIDS.txt]

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This readme file relates to grids provided in the file: [MAG_MERGE_2022_GRIDS.zip]

Date of data release: 10 March 2022

There are three different georeferenced grid formats for the Tellus geophysical data grids:

.grd files are Geosoft grid files and can be opened in: GIS software including Geosoft, ArcGIS (only with Geosoft ArcGIS plugin) and MAPINFO.

.tif files are georeferenced coloured raster files.

.gxf are ASCII grid files and are an interrogatable raster file. This format can be opened in many GIS software programmes. Instructions on how to display the grids with the correct colour ramp in ArcGIS and QGIS are in the [ArcGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] and [QGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] files included in this .zip.

Images are intended to be viewed with in the Geosoft Clra 32 colour ramp. Included in this .zip file are an ArcGIS style file [Geosoft.Style] and an QGIS XML Colour ramp [Geosoft_Clra_32_qgis.XML] that contain Geosoft Clra 32 colour ramps.

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Name	Unit	Description
TELLUS_MAG_MERGE_2022_TMI	nT	Microlevelled Airborne Magnetic anomaly
TELLUS_MAG_MERGE_2022_UP250_TDR	Radians	Tilt derivative of Microlevelled upward continued by 250 m and pole reduced Airborne Magnetic anomaly
TELLUS_MAG_MERGE_2022_UP250_1VD	nT/m	First vertical derivative of Microlevelled upward continued by 250 m and pole reduced Airborne Magnetic anomaly

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9. GAMMA-RAY SPECTROMETER GRID DATA README FILES [RAD_MERGE_2022_ReadMe_GRIDS.txt] and [RAD_MERGE_2022_ReadMe_Ternary_Image.txt]

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This readme file relates to grids provided in the file: [RAD_MERGE_2022_GRIDS.zip]

Date of data release: 10 March 2022

There are three different georeferenced grid formats for the Tellus geophysical data grids:

.grd files are Geosoft grid files and can be opened in: GIS software including Geosoft, ArcGIS (only with Geosoft ArcGIS plugin) and MAPINFO.

.tif files are georeferenced coloured raster files.

.gxf are ASCII grid files and are an interrogatable raster file. This format can be opened in many GIS software programmes. Instructions on how to display the grids with the correct colour ramp in ArcGIS and QGIS are in the [ArcGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] and [QGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] files included in this .zip.

Images are intended to be viewed with in the Geosoft Clra 32 colour ramp. Included in this .zip file are an ArcGIS style file [Geosoft.Style] and an QGIS XML Colour ramp [Geosoft_Clra_32_qgis.XML] that contain Geosoft Clra 32 colour ramps.

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Name	Units	Description
TELLUS_RAD_TC_MERGE_2022_COAST	counts/s	Corrected Total Count, de-lagged, micro-levelled and minimum limited to 0
TELLUS_RAD_K_MERGE_2022_COAST	%	Corrected Potassium Concentration, de-lagged and minimum limited to 0
TELLUS_RAD_U_MERGE_2022_COAST	ppm	Corrected Uranium Concentration, de-lagged, micro-levelled and minimum limited to 0
TELLUS_RAD_TH_MERGE_2022_COAST	ppm	Corrected Thorium Concentration, de-lagged and minimum limited to 0

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Radiometric Ternary image readme file

The radiometric ternary map shows the variation of potassium, equivalent thorium and equivalent uranium at each location.

The image is created by combining potassium (red), thorium (green) and uranium (blue) to form a single image.

The strength of the three different colours reflects the prominence of the three different elements.

Combinations of colours indicate a combination of relative elements. White and black colours indicate high and low values respectively in all three radionuclides.

Ternary image only available as .tif file (georeferenced coloured raster file).

Data have been corrected for altitude variations

Grids were created using Geosoft Oasis Montaj using the inverse distance weighting method with a grid cell size of 50m.

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Name                               Unit      Description
TELLUS_RAD_TERNARY_MERGE_2022_COAST  %/ppm    Radiometric ternary map obtained by combined percent-potassium, equivalent thorium and equivalent uranium
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10. A) FREQUENCY DOMAIN ELECTROMAGNETIC GRID DATA README FILE [EM_2F_MERGE_2022_ReadMe_Grids.txt]

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This readme file relates to grids provided in the file: [EM_2F_MERGED_2019B_GRIDS.zip]
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Date of data release: 28 February 2019

There are three different georeferenced grid formats for the Tellus geophysical data grids:

.grd files are Geosoft grid files and can be opened in: GIS software including Geosoft, ArcGIS (only with Geosoft ArcGIS plugin) and MAPINFO.

.tif files are georeferenced coloured raster files.

.gxf are ASCII grid files and are an interrogatable raster file. This format can be opened in many GIS software programmes. Instructions on how to display the grids with the correct colour ramp in ArcGIS and QGIS are in the [ArcGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] and [QGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] files included in this .zip.

Images are intended to be viewed with in the Geosoft Clra 32 colour ramp. Included in this .zip file are an ArcGIS style file [Geosoft.Style] and an QGIS XML Colour ramp [Geosoft_Clra_32_qgis.XML] that contain Geosoft Clra 32 colour ramps.

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Name                               Unit      DESCRIPTION
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TELLUS_EM_RES3_2F_MERGE_2022_COAST	ohm-m	Merged half-space model Resistivity for island of Ireland for 3 kHz
TELLUS_EM_RES12_2F_MERGE_2022_COAST	ohm-m	Merged half-space model Resistivity for island of Ireland for 12 kHz

10. B) FREQUENCY DOMAIN ELECTROMAGNETIC GRID DATA README FILE [EM_4F_MERGE_2022_ReadMe_Grids.txt]

This readme file relates to grids provided in the file: [EM_4F_MERGE_2022_GRIDS.zip]

Date of data release: 10 March 2022

There are three different georeferenced grid formats for the Tellus geophysical data grids:

.grd files are Geosoft grid files and can be opened in: GIS software including Geosoft, ArcGIS (only with Geosoft ArcGIS plugin) and MAPINFO.

.tif files are georeferenced coloured raster files.

.gxf are ASCII grid files and are an interrogatable raster file. This format can be opened in many GIS software programmes. Instructions on how to display the grids with the correct colour ramp in ArcGIS and QGIS are in the [ArcGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] and [QGIS_Colour_Ramp_gxf_InstructionsReadMe.pdf] files included in this .zip.

Images are intended to be viewed with in the Geosoft Clra 32 colour ramp. Included in this .zip file are an ArcGIS style file [Geosoft.Style] and an QGIS XML Colour ramp [Geosoft_Clra_32_qgis.XML] that contain Geosoft Clra 32 colour ramps.

Name	Unit	DESCRIPTION
TELLUS_EM_RES09_4F_MERGE_2022_COAST	ohm-m	Merged half-space model Resistivity for island of Ireland for 0.9 kHz
TELLUS_EM_RES3_4F_MERGE_2022_COAST	ohm-m	Merged half-space model Resistivity for island of Ireland for 3 kHz
TELLUS_EM_RES12_4F_MERGE_2022_COAST	ohm-m	Merged half-space model Resistivity for island of Ireland for 12 kHz
TELLUS_EM_RES25_4F_MERGE_2022_COAST	ohm-m	Merged half-space model Resistivity for island of Ireland for 25 kHz