



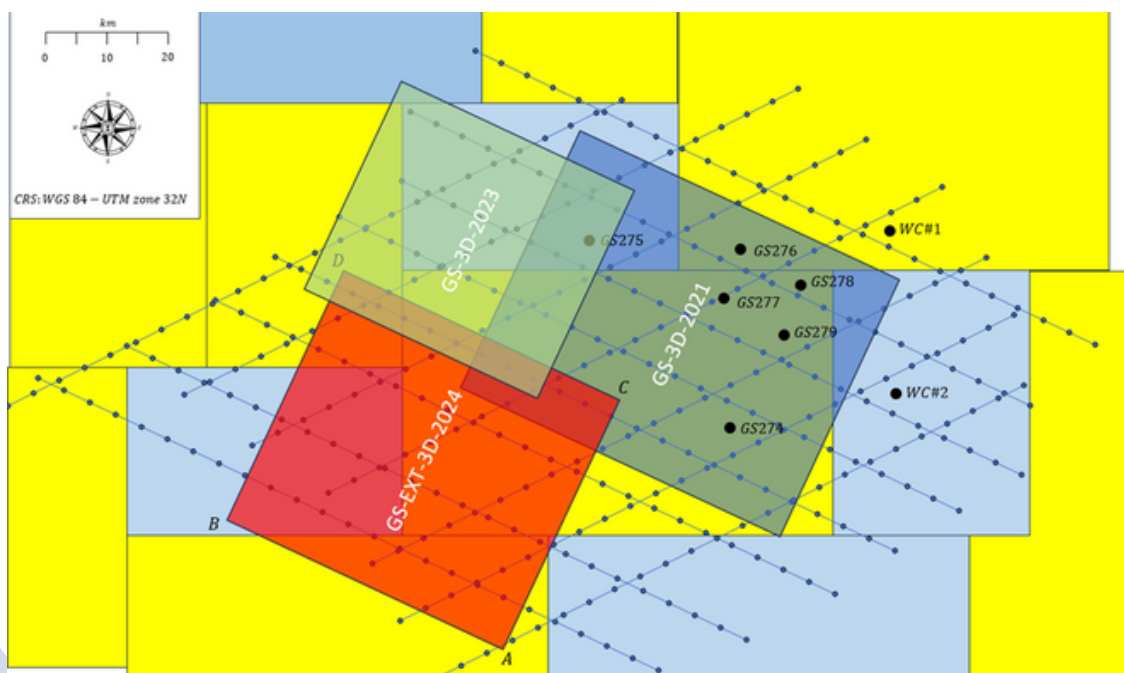
Geomatic Solution

POSITIONING DATA MANAGEMENT

Accurate geo-spatial data management is essential to reliable decision-making in the exploration cycle. If neglected, small errors introduced early can escalate into costly problems later. Even though seismic data is just one step in the process, it guides critical choices such as drilling locations. Ensuring accuracy from the start builds confidence and reduces risks throughout the entire lifecycle.

METADATA AND COMPLIANCE MATTER

- Data format compliance is essential to reliable data management.
- Accurate metadata ensures information is consistent and traceable.
- Few corporate databases maintain both, making it a rare but valuable asset.





POSITIONING DATA MANAGEMENT

Use and compliance to common exchange file formats for different data types, e.g., seismic positioning data (P1/90, P1/11), seismic grids for binning (P6/98, P6/11) and wellbore survey data (P7/17). Adaption of the common header will ensure consistency of geodetic data management throughout the project.

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EPSG
GEODETIC PARAMETER DATASET
Managed by IOGP's Geomatics Committee

EPSG Dataset : v11.016

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EPSG Geodetic Parameter Dataset

About the EPSG Dataset

The IOGP's EPSG Geodetic Parameter Dataset contains definitions of coordinate reference systems and coordinate transformations which may be global, regional, national or local in application. It is maintained by the Geodesy Subcommittee of the IOGP Geomatics Committee.

The EPSG Dataset is the de facto standard in the geospatial industry, initiated in 1985 and first made public in 1993, as described in the [History of the EPSG Dataset](#). For more information about its content and usage, see the [Guidance Notes](#) under "Support Documentation".

Recent changes to the data can be viewed in the [Release Information History Table](#).

To request changes to the EPSG Dataset see [EPSG Dataset Change Request Help](#).

About this site

This site contains the master EPSG Dataset. Its data model follows the ISO 19111:2019 international standard for referencing by coordinates, including its provision for dynamic datums, geoid-based vertical datums, datum ensembles and derived projected coordinate reference systems. EPSG Dataset versions 10.0 and later follow this data model. It is generally backward compatible with the previous 19111:2007 model data model but has some modifications and additional elements. For an overview of the model changes see [here](#).

EPSG Dataset versions v10.003 in the 2019 model and v9.9.1 in the 2007 data model released in September 2020 contain the same data. Both are available from the [Dataset Archives](#). Subsequent data releases including the current one have been made only in the new data model.

The software for this site is subject to continuous improvement and from time to time small changes in functionality may be made.

GeoRepository API

Software developers can find the RESTful GeoRepository API [here](#) (swagger).

The [EPSG Registry API User Guide](#) provides assistance to computer application developers who wish to use the RESTful API of the EPSG Registry to query and retrieve entities and attributes from the Dataset.

About registration

To gain access to the EPSG data through these web pages, you must agree to the [Terms of Use](#) by registering on this site. Once logged in, you will have access to additional functionality and may also manage your account including your subscription to EPSG updates.

To register, you must enter your email address (visible to IOGP) and password (not visible). This information is not used outside this site, nor is it passed on to any third party.

[Click here](#) to register.



POSITIONING DATA MANAGEMENT

Parameters for CRSs, conversions, and transformations are fundamental to establishing a reliable geodetic framework. Uncontrolled referencing—particularly from open-source sources without audit trails—can introduce errors and delays. A centralized corporate geodetic catalogue ensures all users, services, and applications operate from a consistent system of record.

GEODETC CONSISTENCY ACROSS APPLICATIONS

- Consistent geodetic data management across subsurface, GIS, and computational applications prevents errors caused by differing system definitions.
- Analysts verify the consistency of coordinate operations applied by application libraries to seismic and well data projects.
- Synchronisation tools interface between the central geodetic database and widely used platforms, including:
 - SLB Petrel/Studio
 - ESRI ArcGIS
- These tools enforce compliance and ensure consistent geo-spatial data usage across the organisation.

