

New position data exchange formats now available

OGP has created two new position data exchange formats to replace the out-dated UKOOA P1/90 and P2/94 formats.

The revised and modernised formats – OGP P1/11 and P2/11 – are now available to download from <http://info.ogp.org.uk/geomatics/>

The UKOOA P1/90 and P2/94 position data exchange formats that are commonly used in seismic data acquisition have outlived their design life and can no longer support modern acquisition techniques without adaptation. They have therefore ceased to be standards as each user of the formats has modified them differently, to suit their own purpose.

In 2011, OGP, the custodian of these formats, brought them up to date to meet the needs of complex seismic acquisition techniques of today and the foreseeable future.

Furthermore, while use of the post-processed position data format (P1/90) has been common only in the marine environment, **the revised version has the advantage of being applicable to all environments (marine, transition zone and land), whether for 2D, 3D or 4D acquisition.** Other legacy formats such as the unsupported SEG P1 can therefore be retired in favour of the P1/11.*



Among the benefits of the new formats :

- A structured ASCII text style for human and machine-readability
- Comma-separated fields enabling direct extraction into a spreadsheet
- The ability to store single or multiple seismic lines in the same file which, with conventional file compression can be reduced to manageable file sizes for transmission
- Freedom from previous constraints on field or file line lengths – the receiver groups for an entire streamer can be stored on one line if required
- Availability of a user guide for the P1/11 format

¹ The Technical Standards Committee of the Society of Exploration Geophysicists (SEG TSC) and OGP's Geomatics Committee agreed to deprecate the SEG P1 and recognise the OGP P1/11 as its replacement



Environments

- Marine
- Transition zone
- Land

Applications

- Preplot exchange
- Seismic acquisition
- Seismic processing
- Geophysical site hazard surveys
- Workstation data loading
- Data management

OGP P1/11 replaces UKOOA P1/90

OGP P2/11 replaces UKOOA P2/94

SEG P1 deprecated,* replaced by OGP P1/11

Key features include:

- A **Common Header** across all 'P' position formats
- **Unambiguous geospatial definition** of position data in up to three coordinate reference systems including relevant transformations
- Full support for the OGP **EPSG Geodetic Parameter Dataset**
- Data values recorded to their **full measured resolution**
- Record extension through **additional user-defined fields**
- Any node defined as a position object can be recorded, with **positional error estimates** and other attributes
- A standard means of **exchanging pre-plots** (lines, points, arcs, spirals) and survey areas
- Support for **relational records** linking source & receiver positions as required for 3/4D surveys
- Optional fields allow support for **data in legacy formats**
- Support for raw **GNSS data recording** (P2/11)
- Support for **environmental data** such as magnetic variation, speed of sound, tidal information (P2/11)

Contact Us

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