

## **IODP SSP and EPSP Drill Site Characterization Data Requirements Matrix**

### **Introduction**

In the following document, the indented site characteristics apply to the next higher subheading only. For example:

Numbers 1, 2, 3 etc. are independent of each other: choose one or more that fit your site.

Numbers 2a and 2b are alternatives under 2 but independent of 1.

Thus, if you have a site located on an active margin, penetration depth between 100–400m into sediment without a riser, with no suspected overpressure, numbers 1, 2b(i), and 5a would apply, plus any of 6 to 21 depending on the precise situation.

For more information about many of the data types referred to in this document, see [http://ssdb.iodp.org/documents/Site\\_Survey\\_Guide\\_v1.pdf](http://ssdb.iodp.org/documents/Site_Survey_Guide_v1.pdf).

### **Basic Requirements**

1. A bathymetric map is required for surface characterization of all sites.
2. Information about lithologic projections and structural configurations is required for all sites. (Usually achieved by seismic profiling using data as indicated in the table below.)
3. Gravity and magnetic data are required by the **SSP** on a case-by-case basis.
4. Weather window, current, ice and tidal data may be required (on location-specific basis) by the **EPSP** (and IO) where these aspects are recognized as a specific threat to operations. Current and tidal data are required by the **SSP** on a case-by-case basis.
5. Information about potential man-made hazards, hydrocarbon shows and environmental restrictions are required by the **EPSP**.
6. Other basic information required for all sites:
  - a. Latitude & longitude
  - b. Water depth
  - c. Depth of penetration
  - d. Tectonic/depositional setting
  - e. Relevant nearby drill sites and/or wells

### **Data Requirements**

The term "Requirement", as applied to site survey data in this table, should be interpreted to mean that the listed data types are *usually* required by either the Site Survey Panel (**SSP**) and/or the Environmental Protection and Safety Panel (**EPSP**) for review purposes. Either panel may waive a requirement, or request additional requirements on a case-by-case basis. These panels are also responsible for judging the quality of the available data; poor quality data may not satisfy their "requirements". A site survey data package that does not include all of the "required" data types does not necessarily preclude drilling; the Science Planning Committee (SPC) and, ultimately, the drill ship Operator are responsible for determining whether an expedition can go forward.

