New IODP data access: Scientific Earth Drilling Information Service (SEDIS)

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Since the beginning of the IODP program a great effort has been made to implement an information system benefitting all involved partners in IODP (USIO, CDEX; ECORD) and the scientific community.

The IODP is preparing for the challenge of managing data from three scientific drilling platforms, operated by:

• US Implementing Organization (USIO) http://www.iodp-usio.org/
• Japanese Center for Deep Earth Exploration (CDEX) http://www.jamstec.go.jp/chikyu/eng/index.html
• European Consortium for Ocean Research Drilling (ECORD) science operators (ESO) http://www.ecord.org/

Each implementing organization (IO) uses a different data management system and database:

• JANUS and new database to be released in 2008 (USIO)
• ExpeditionDIS and PANGAEA (ESO)
• J-CORES (CDEX)

The core of the information system will be a searchable inventory of core, logging, and legacy data from IODP and previous drilling programs (DSDP, ODP). Metadata will be provided by the three IOs, one logging data archive, and possible further data providers relevant to the context of IODP.
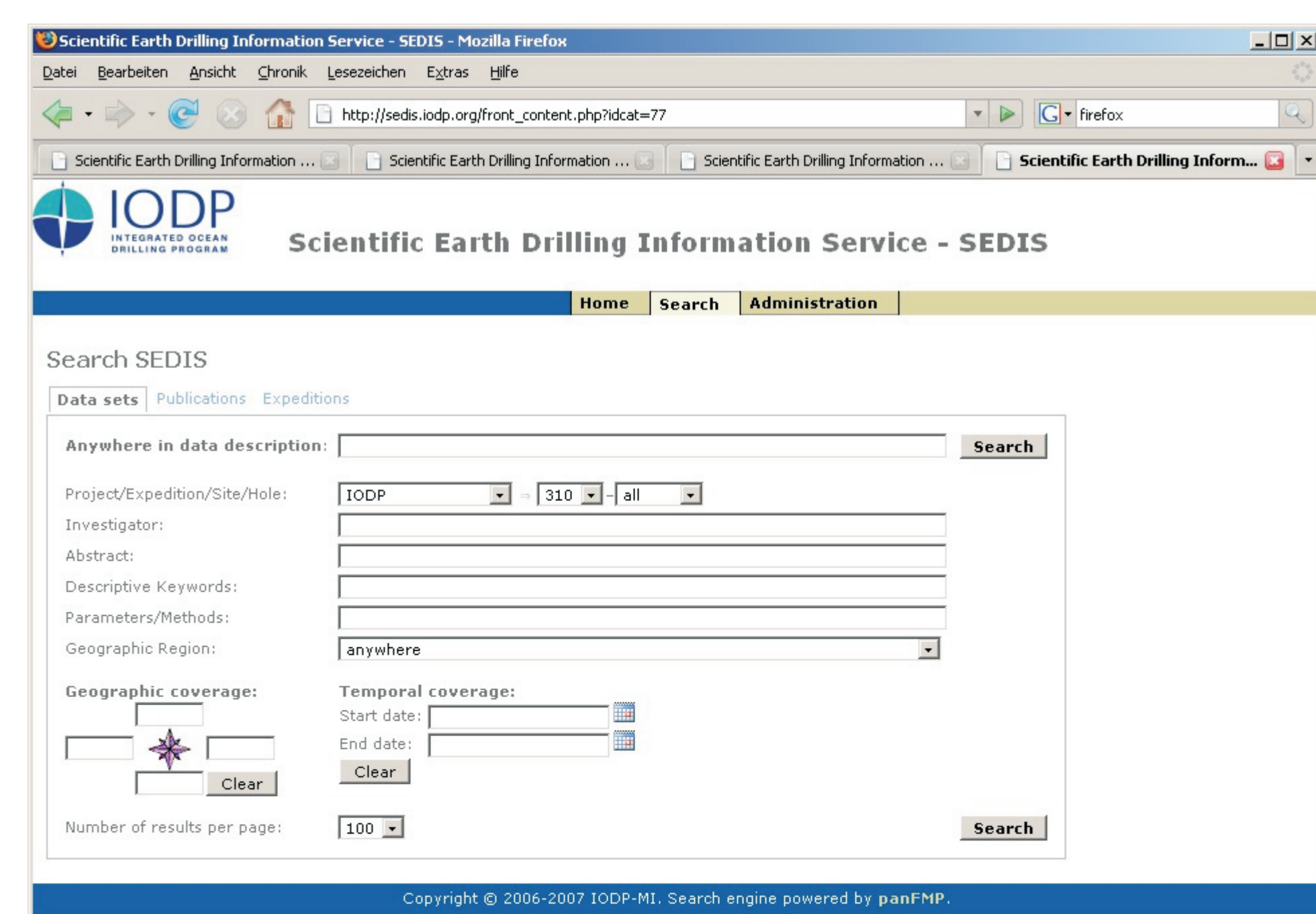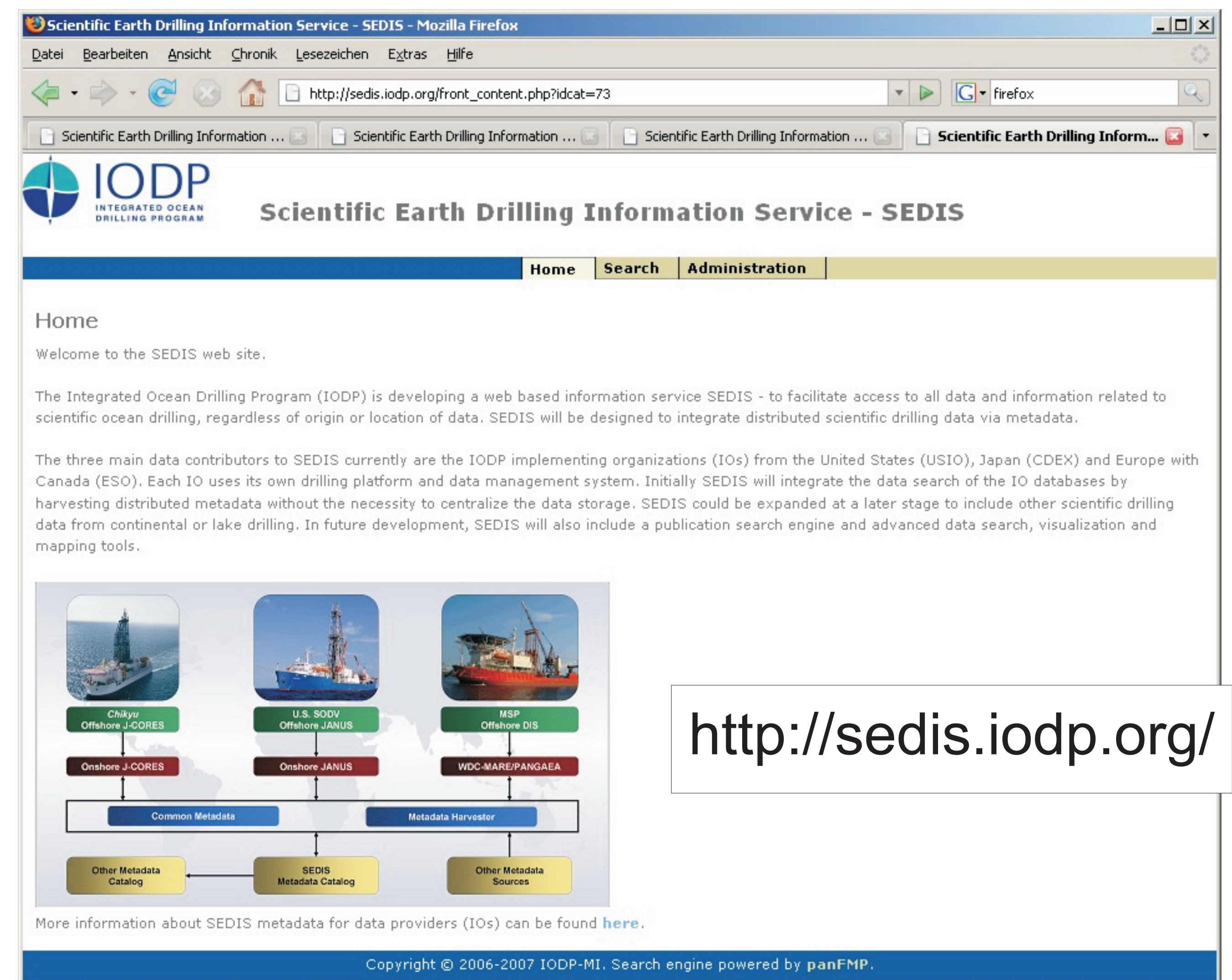
SEDIS will be developed in three phases:

Phase I [finished]: Metadata portal for data discovery and harvesting (see Information query and Expedition catalogue screen shots). Metadata will be provided by the IOs
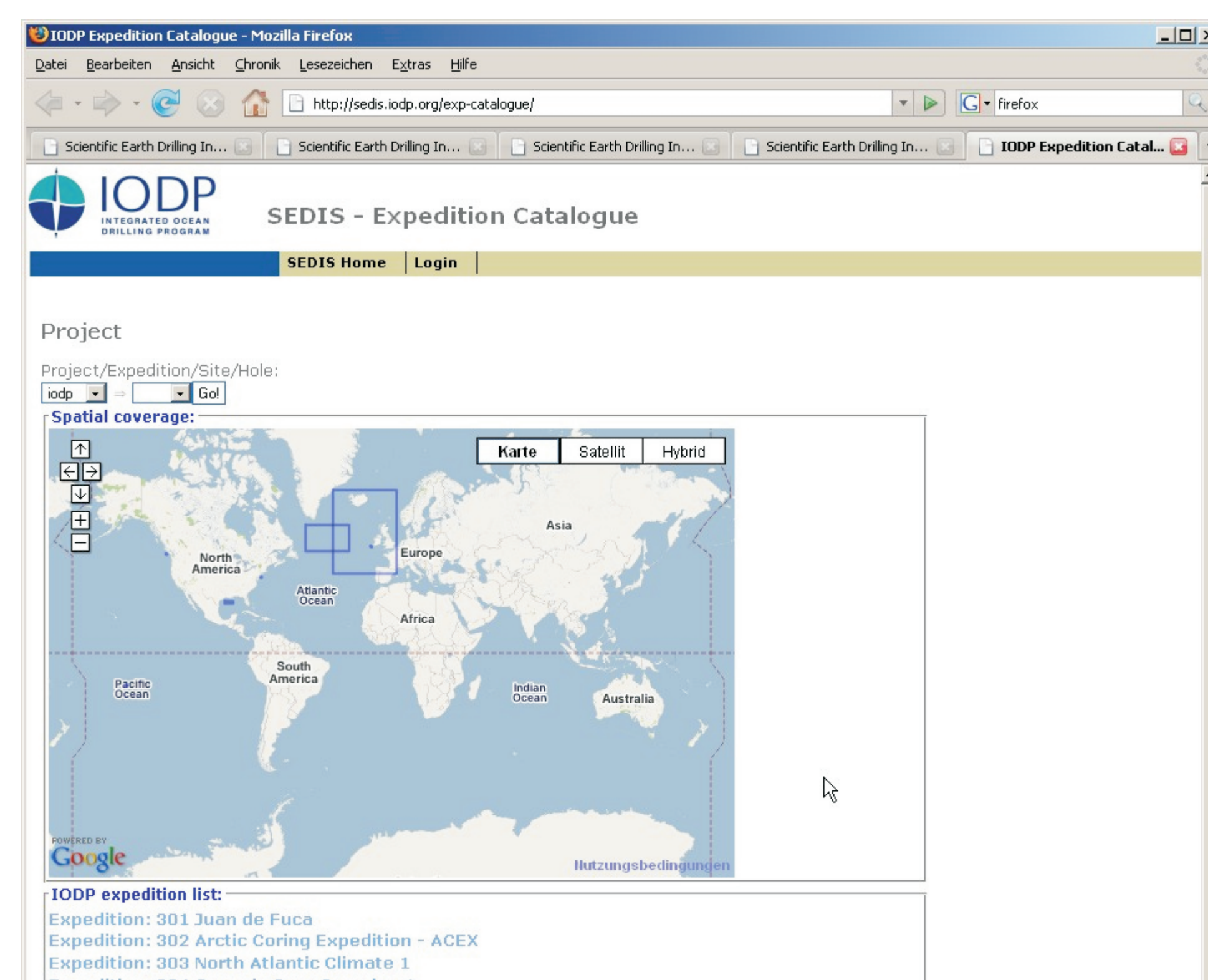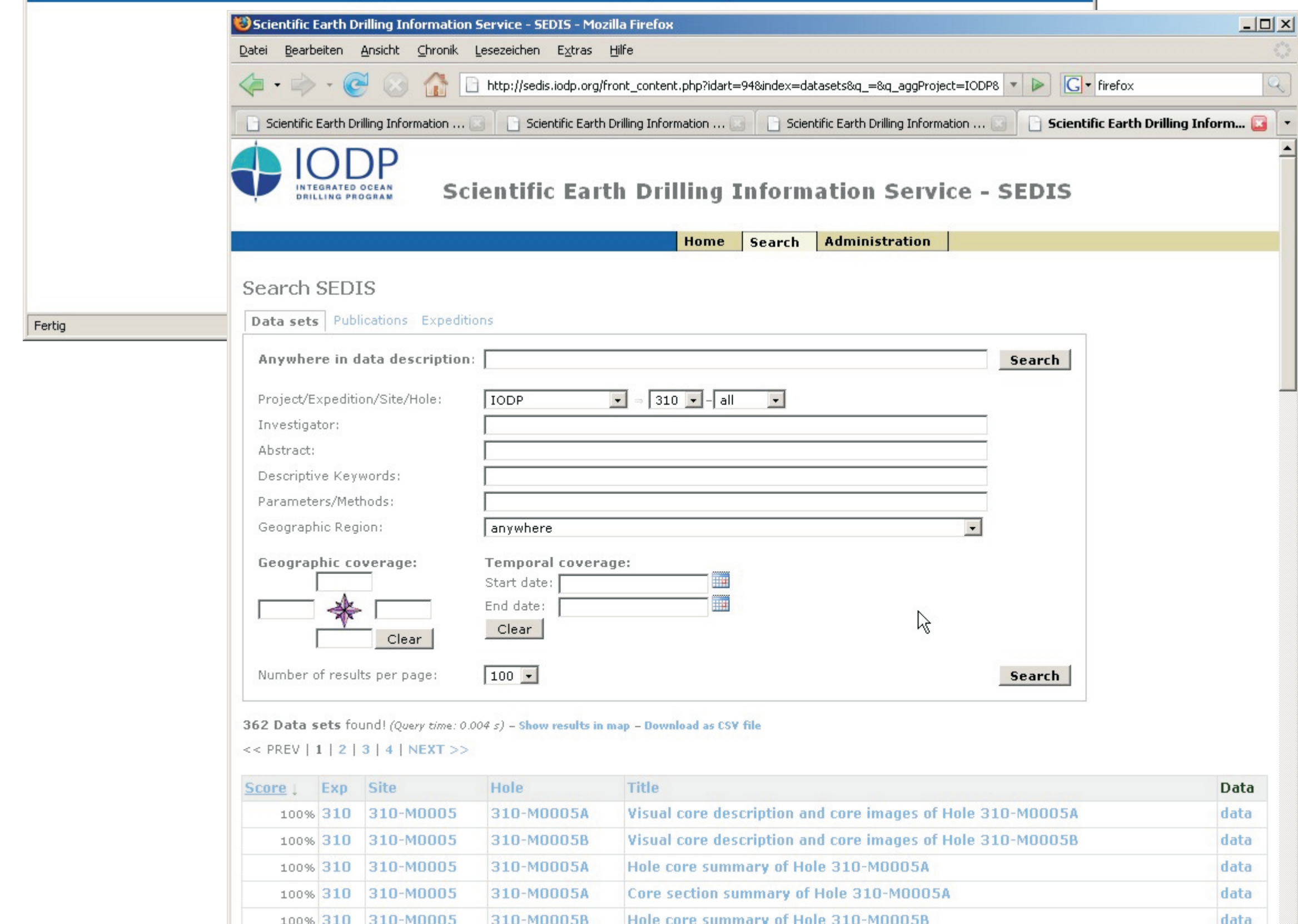
Phase II [in progress]: Search database for publications, reports, minutes, citations and possibly post-expedition research

Phase III [planned]: Advanced data search, data conversion (ASCII, Excel, ESRI shape, ...), and visualization tools (e.g 'GeoMapApp')
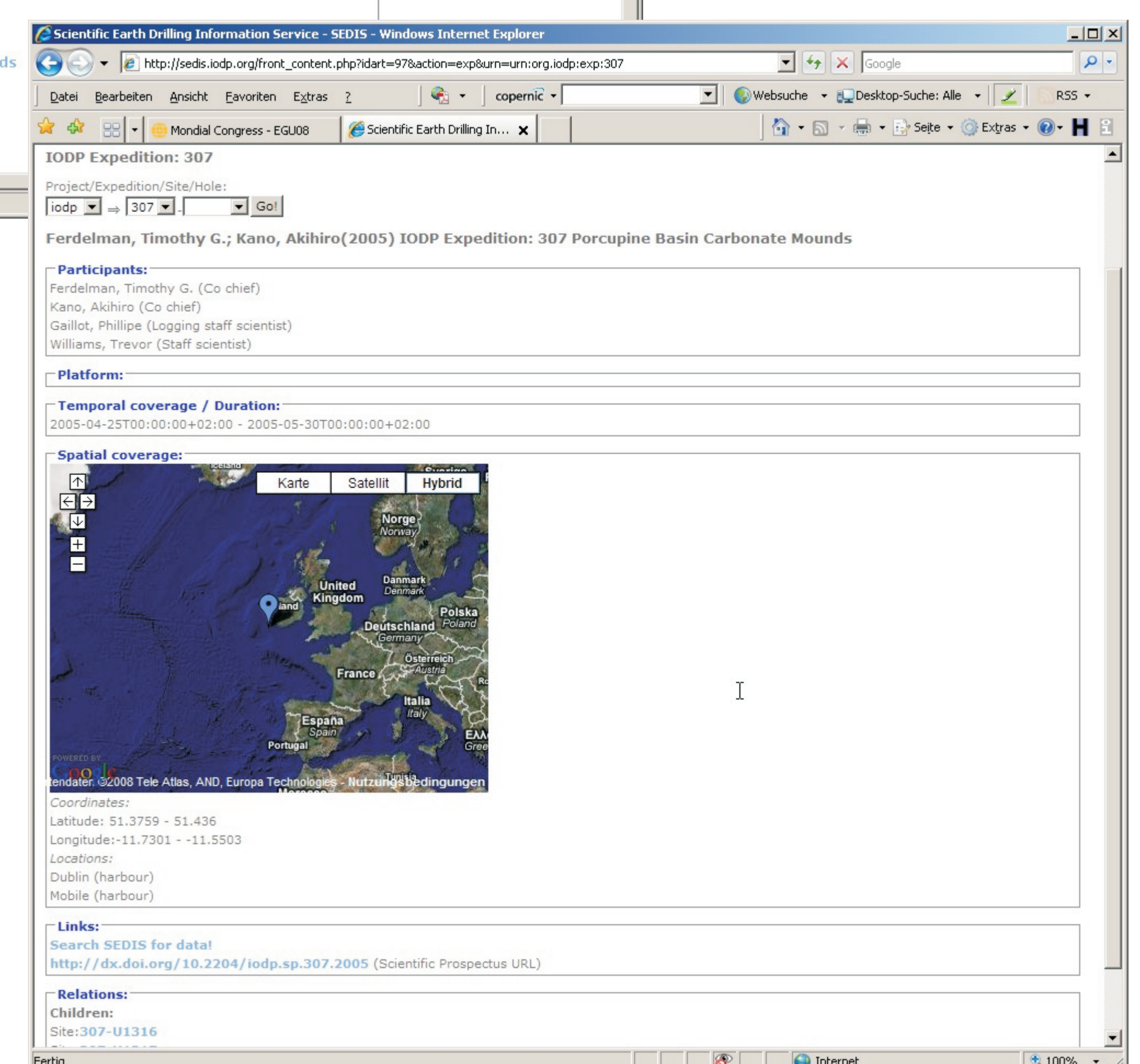
SEDIS uses international standards for metadata, data exchange and transfer and is based on open source components (panFMP, see Technical background).

http://sedis.iodp.org/

Information query

Expedition catalogue

Technical background

http://www.panfmp.org/