Update from Ridge 2000 Data Portal

Database Team:

Dr. Suzanne Carbotte    Dr. Vicki Ferrini
Dr. William B.F. Ryan    Dr. Andrew Goodwillie
Ms. Joyce Alsop         Mr. Allen Leung
Mr. Robert Arko          Mr. Andrew Melkonian
Ms. Julie Bonczkowski    Dr. Frank Nitsche
Mr. Dale Chayes          Ms. Suzanne O’Hara
Mr. Justin Coplan        Mrs. Rose Ann Weissel
Relational Database

- Basic metadata (who?, what?, when?, where?)
- Field data & derived data
- Data access & analysis
  - Search
  - Map-based access
  - Web services
- External links to other repositories

**Object oriented database**
Ridge 2000 Data Summary

- 36 R2K-Funded Entries
  - 31 Field Programs (2002-2008)
  - 5 Compilations

- 246 R2K-Relevant Entries
  - 202 Field Programs (1962-2008)
  - 44 Compilations
Field Programs

Field Data

• Sample metadata
  – Device
  – Location
  – Species names (OBIS)

• Station metadata

• Vent positions

• Photographs

• Raw Sensor data files
  – Navigation, Geophysics, Sensors

Derived Data

• Grids

• Web Galleries

• Photo Mosaics

• Visualizations

• Interpretations
  – Shapefiles

• Lab Analyses
  – Spreadsheets
  – Links to other databases (PetDB, VentDB)
Ridge 2000 Data Summary

- EPR: 278 Data Sets (229 Field, 49 Derived)
- JdF: 122 Data Sets (116 Field, 6 Derived)
- Lau: 105 Data Sets (72 Field, 33 Derived)
*only includes data sets for which data are available

- Ship Nav, NDSF Nav (146 dives)
- Ship-based Bathymetry, Sidescan, MCS, Near-bottom Bathymetry, Earthquake Catalogs, Gravity, Magnetics
- ADCP (Raw), MAPR, CTD (raw & processed), Current Measurements
- Photos & Photo Mosaics
- Sample Metadata, Fluid Chemistry, Eh, Temperature
- Visualizations (Google Earth, Fledermaus)
Outcome of R2K Workshops

• List of legacy data sets not in data portal
• References
• New data submission
  – Raw and processed bathymetry data submitted (JdF)
  – ABE photos submitted photomosaic metadata and mosaics (Lau)
  – 2007 ISEA (fluid chem) data submitted (EPR)
• Data Release
  – ISEA data (fluid chem) through 2006 (EPR)
Data Access

• Map-based
  – Web pages (Google Maps)
  – GeoMapApp
  – Virtual Ocean
  – Google Earth

• Search Interface

• Quick Links on Portal
Ridge 2000 Data Portal

Portal Links
- Portal Home
- What's New
- Project Information
- Related Links
- MediaBank
- Tutorials
- GeoMapApp
- Virtual Ocean
- Find Data

List Data by Site
Select a Site...

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Hosted by Marine Geoscience Data System at Lamont-Doherty Earth Observatory of Columbia University
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GeoMapApp

- Live access to data portal and other databases
- Interact with data
- Import data (grids, tables)
- Live access to Alvin/Jason images in map view (TowCam soon)
- Create Maps
- Export data
  - Tables
  - Grids (NetCDF, ArcGIS, Fledermaus)
  - Images (GeoTIFF, KMZ)
  - Bathy profiles

Available at sea on: Healy, Knorr, Langseth, Oceanus, Palmer, Resolution
GeoMapApp menu redesign currently underway
Virtual Ocean

- 3D Virtual Globe
- GeoMapApp Functionality

www.virtualocean.org
Google Earth

- Live database access
  - Stations & samples
  - Jason/Alvin dive tracks with live image links
  - Self updating files
- GMRT
- Images
Ridge 2000 Data Portal

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Ridge 2000

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Hosted by Marine Geoscience Data System at Lamont-Doherty Earth Observatory of Columbia University
Search For Data

Location Parameters

Search Location By:
World

Instrumentation Status
This Feature Coming Soon!
- All Instruments
- Deployed Instruments Only
  (deployed instruments are still in the field and have only location information)

Data Parameters

Select Data By:
All

Field Format:
(Any)

Reference:
(Any)

Output Parameters

☐ Include data set and device information in output
☐ Exclude data sets not available to the public
☐ Exclude data sets not currently online

Sort Results List By:
Start Date
Fields that have multiple results will sort on the first value.

Maximum Number of Output Records per Page:
50

Search  Reset

Contact us to make additions or corrections to the database.
Please read our terms of use.
### Search For Data

#### Location Parameters
- **Search Location By:**
  - World

#### Data Parameters
- **Select Data By:**
  - All
- **File Format:**
  - (Any)
- **Reference:**
  - (Any)

#### Output Parameters
- Include data set and device information in output
- Exclude data sets not available to the public
- Exclude data sets not currently online
- **Sort Results List By:**
  - Start Date
  - Fields that have multiple results will sort on the first value.
- **Maximum Number of Output Records per Page:**
  - 50

#### Instrumentation Status
- This Feature Coming Soon!
- **All Instruments**
- **Deployed Instruments Only**
  - (deployed instruments are still in the field and have only location information)

#### Field Program /Compilation Parameters
- Click on title above to enable these fields

#### Activity Parameters
- **Launches**
  - Dive/Launch Type:
    - (all)
  - Vehicle Name:
    - (Any)
- **Stations**
  - Station Type:
    - (all)
  - Platform Type:
    - (any)

#### Funding Parameters
- Click on title above to enable these fields

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*Contact us to make additions or corrections to the database.*
*Please read our [terms of use](#).*
### Data Search Results

48 records found that match your search criteria.

To sort table displayed, table by any column, click on its header or use alt+click inside the column.

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Ridge2000

- Major Sampler at EPR (2003)
- Photomosaic of Faulty Tower at Molthra (1997)
- Perspective view of Endeavour Segment (2007)
- Perspective view of Eastern Lau Spreading Center (2006)
- Perspective view of the Vaua Fringe Ridge (2006)
- Perspective view of Clipperton Transform (2007)
- Perspective view of OSC at EPR (2007)
- Perspective view at EPR (2007)
- Medusa jellyfish at EPR (2007)
- Temperature probe at EPR (2007)
- Anemone at EPR (2007)
- Macrulauna and microfauna at Molthra (2007)
- Macrulauna at Molthra (2007)
- Bacterial mats at Molthra (2007)
- Crabs and tubeworms at Molthra (2007)
- Folded ropey sheet flow at Molthra (2007)
- Basalt talus at Molthra (2007)

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• Feedback on:
  – User Interface
  – Custom Search Tool Needs
  – Terms of Use

• Derived data inventory & products
  – How to facilitate submission & compliance with data policy