



Leadline to Multibeam, Sextant to GPS, & Crow quill to Computer:

Bathymetric Data

Collection

Compilation

Archiving

Distribution

In the Past Century

Brian Harper

George Sharman



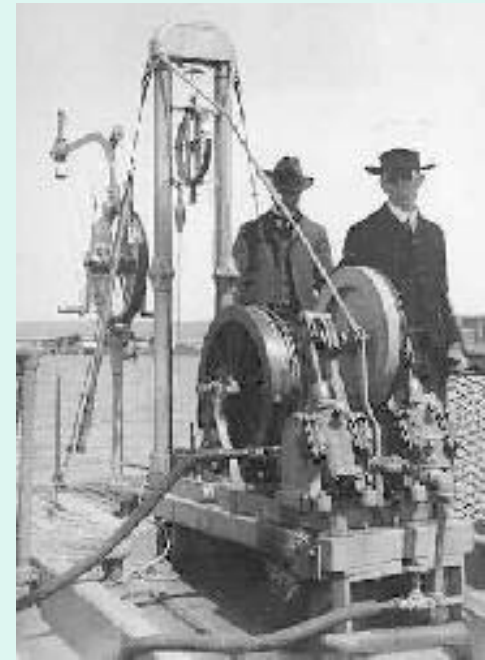
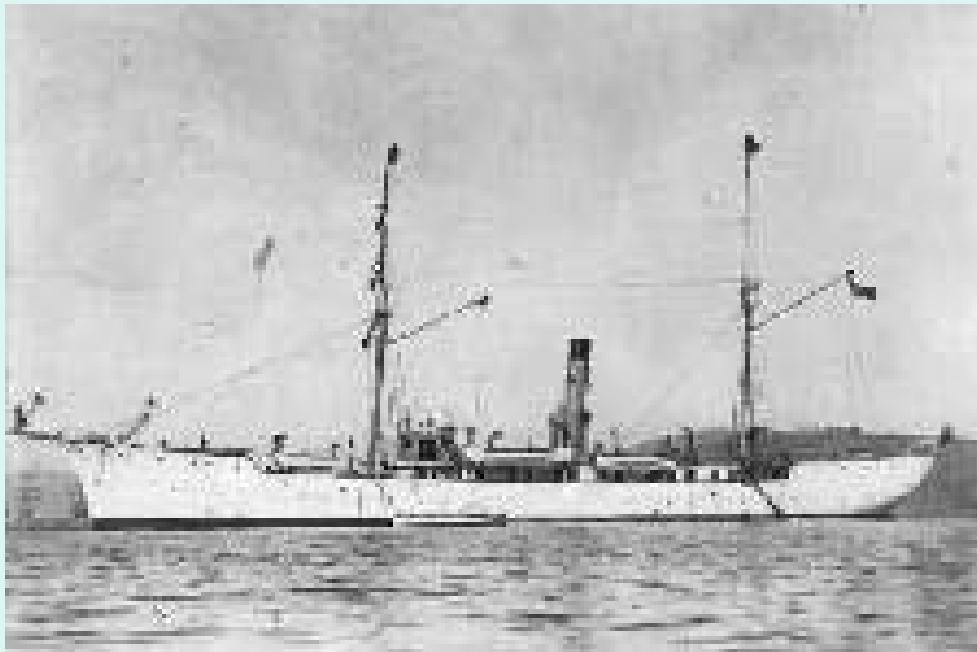
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R/V Albatross

Equipped with a Sigsbee Sounding Machine



Bathymetric sounding collection, circa 1904



Electronic Echo Sounding



EDO Corporation Echo Sounder

Robert L. Fisher on watch, 1953



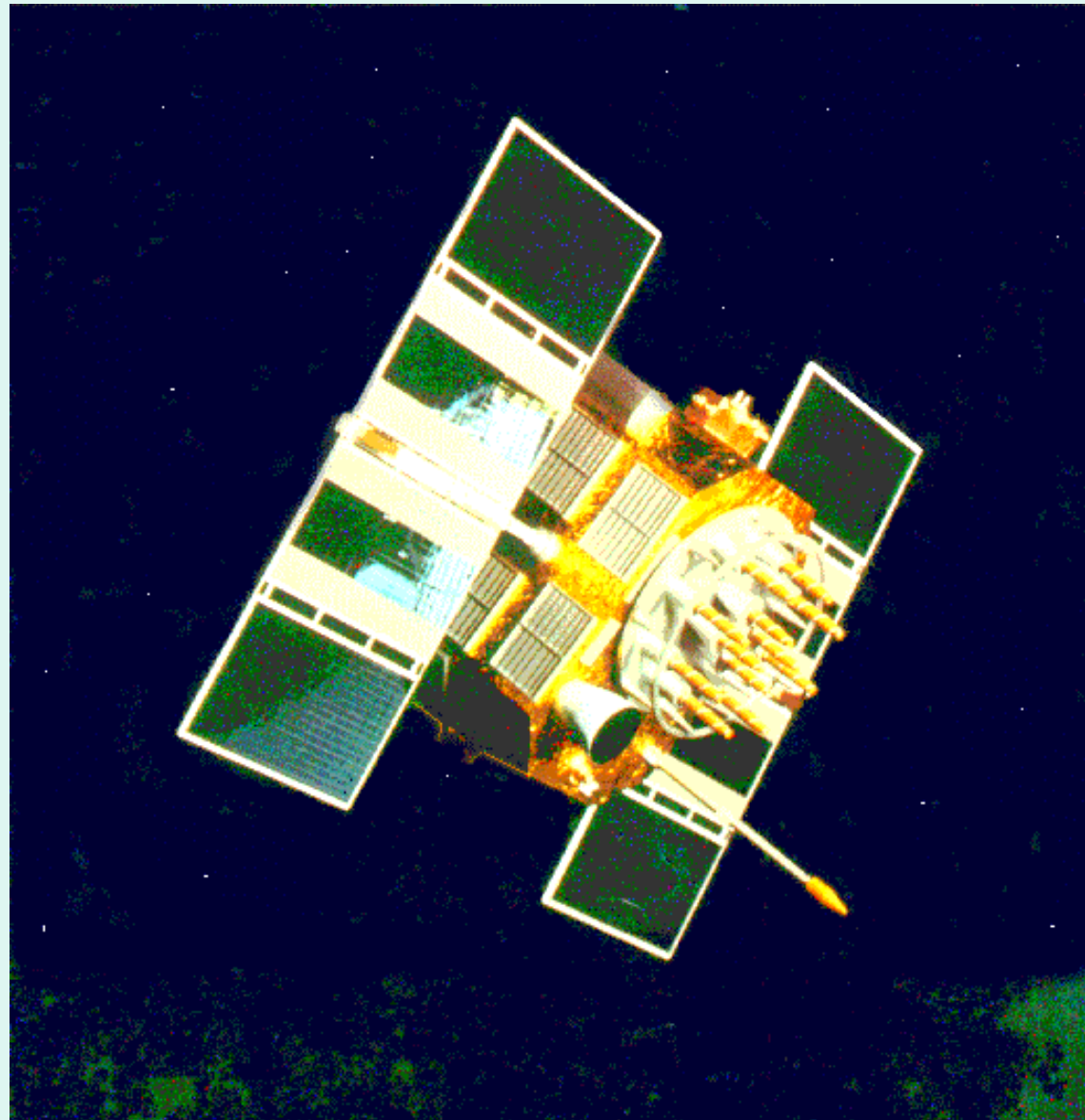
Shipboard Computer

The Blue Max, an IBM 1800 computer being loaded aboard the R/V Thomas Washington, 1967



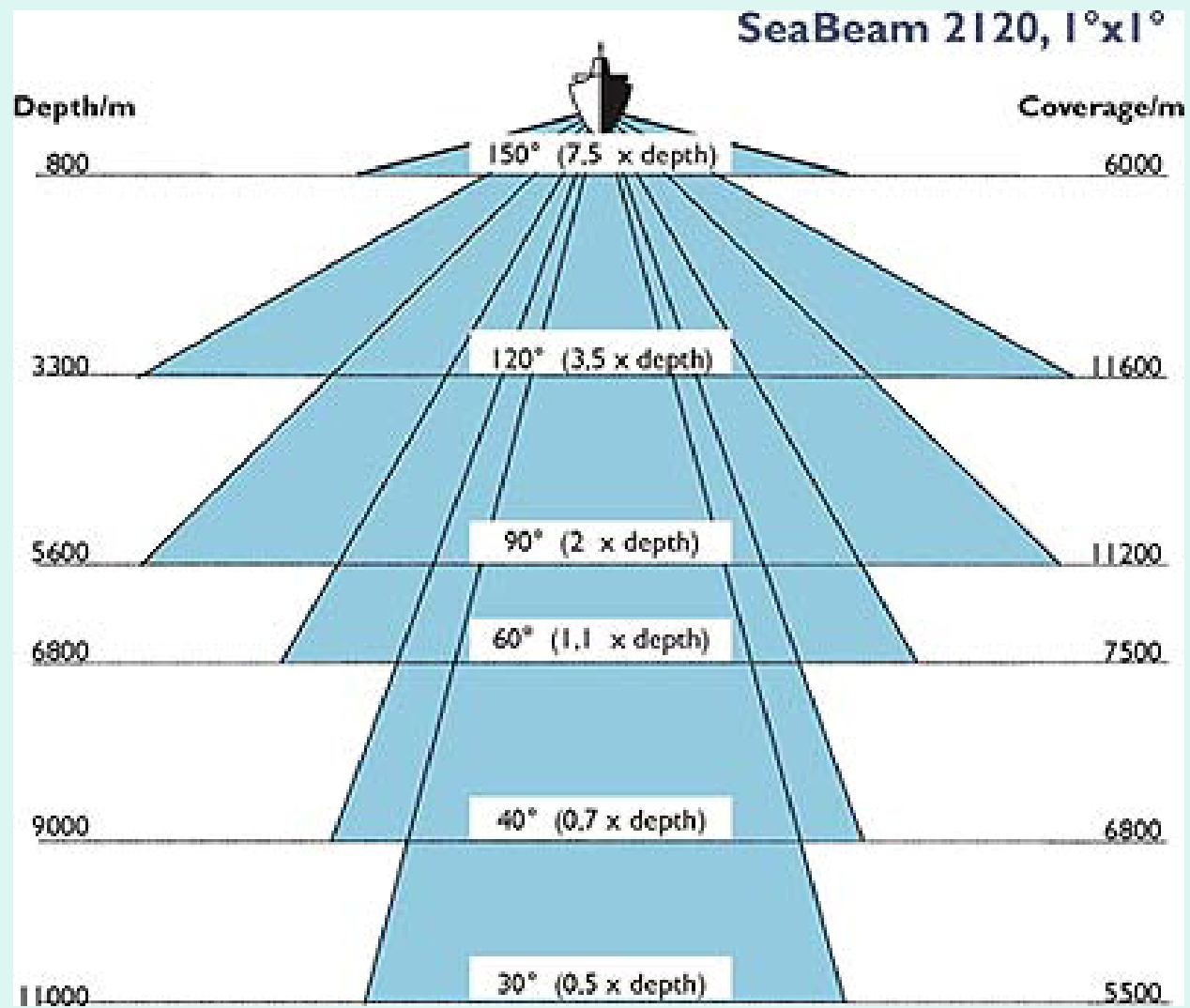


Global Positioning Satellite



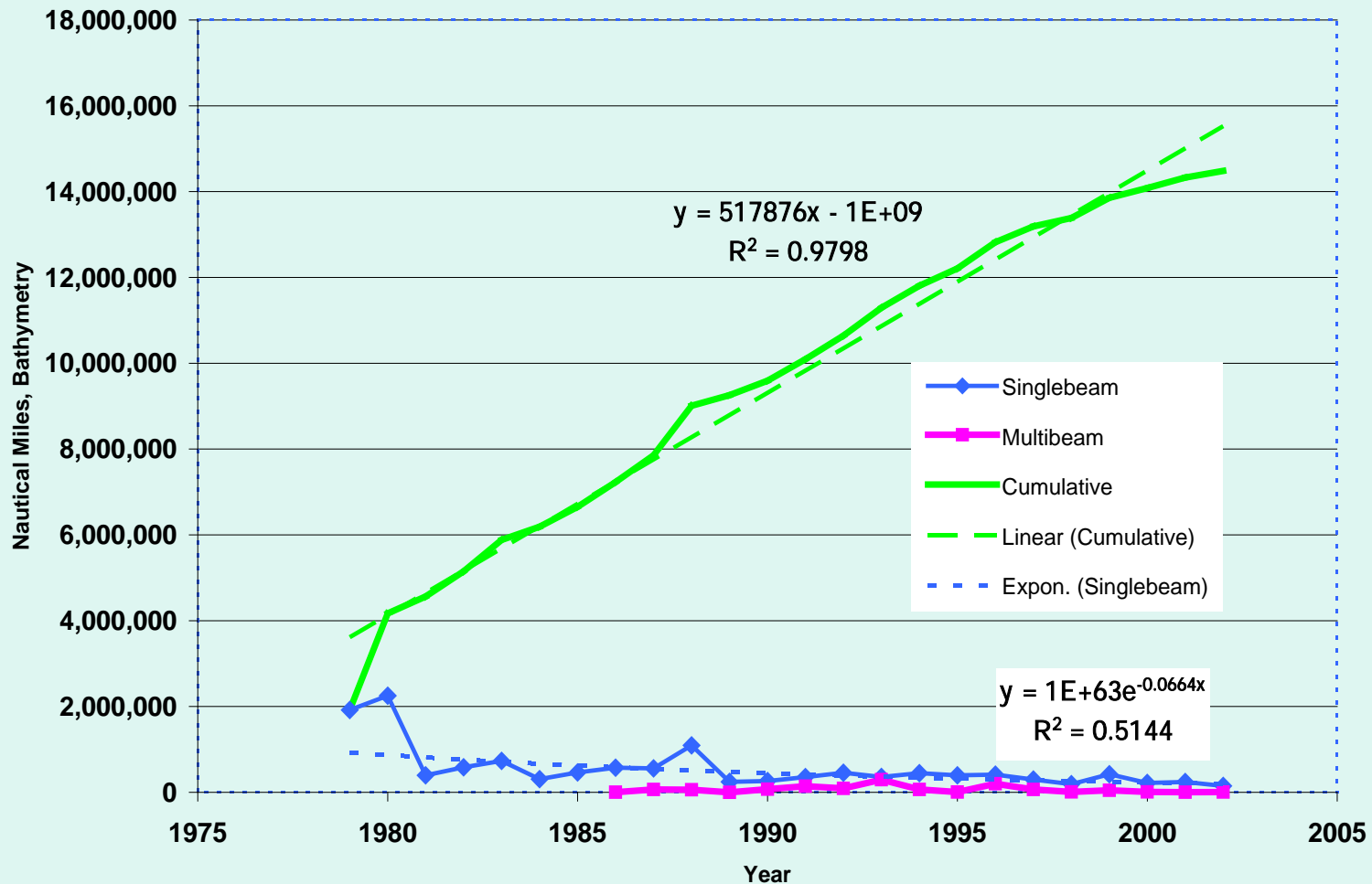


Multibeam Bathymetry System



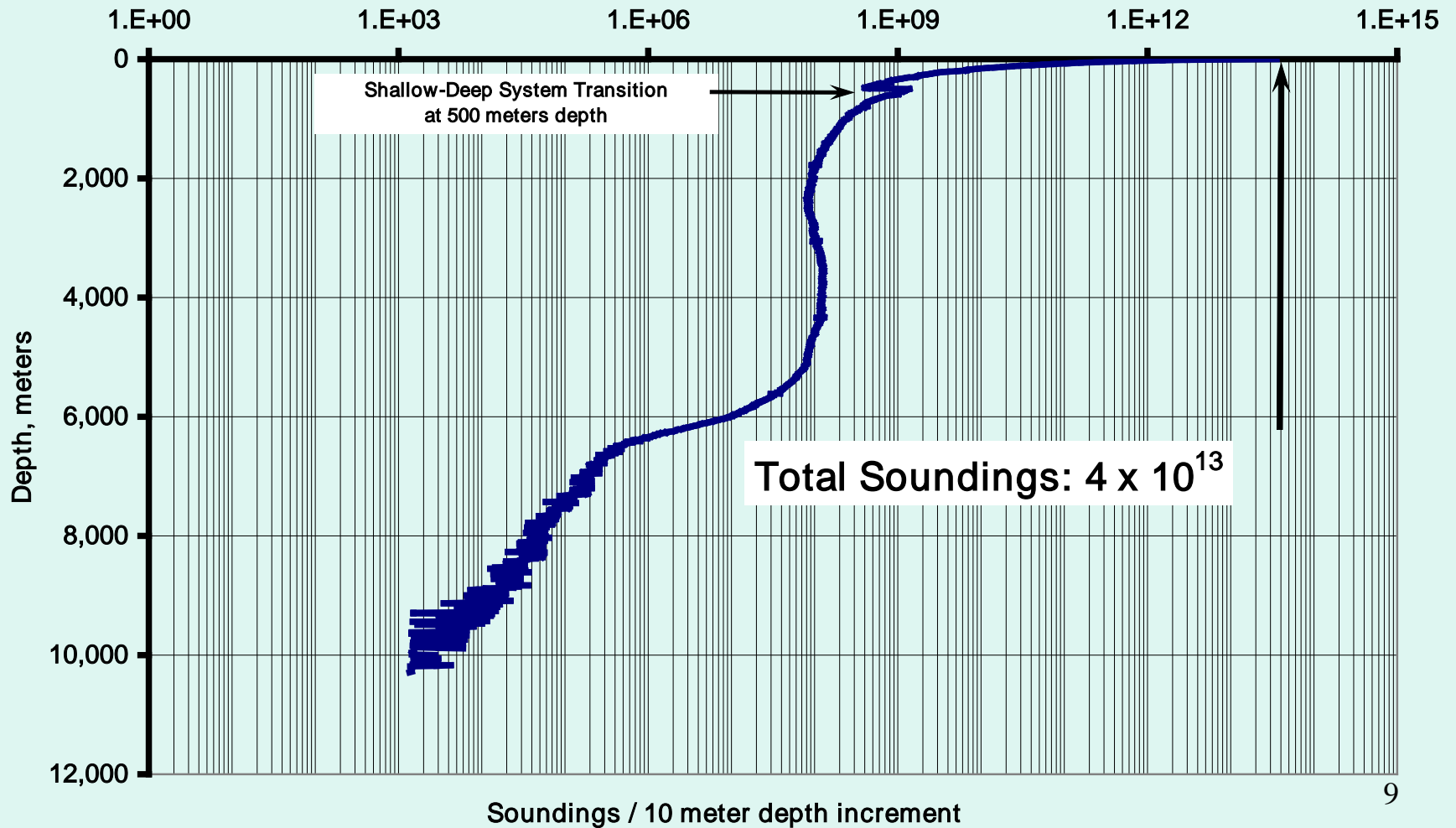


Data Assimilation Rates





Global Sounding Frequency Distribution



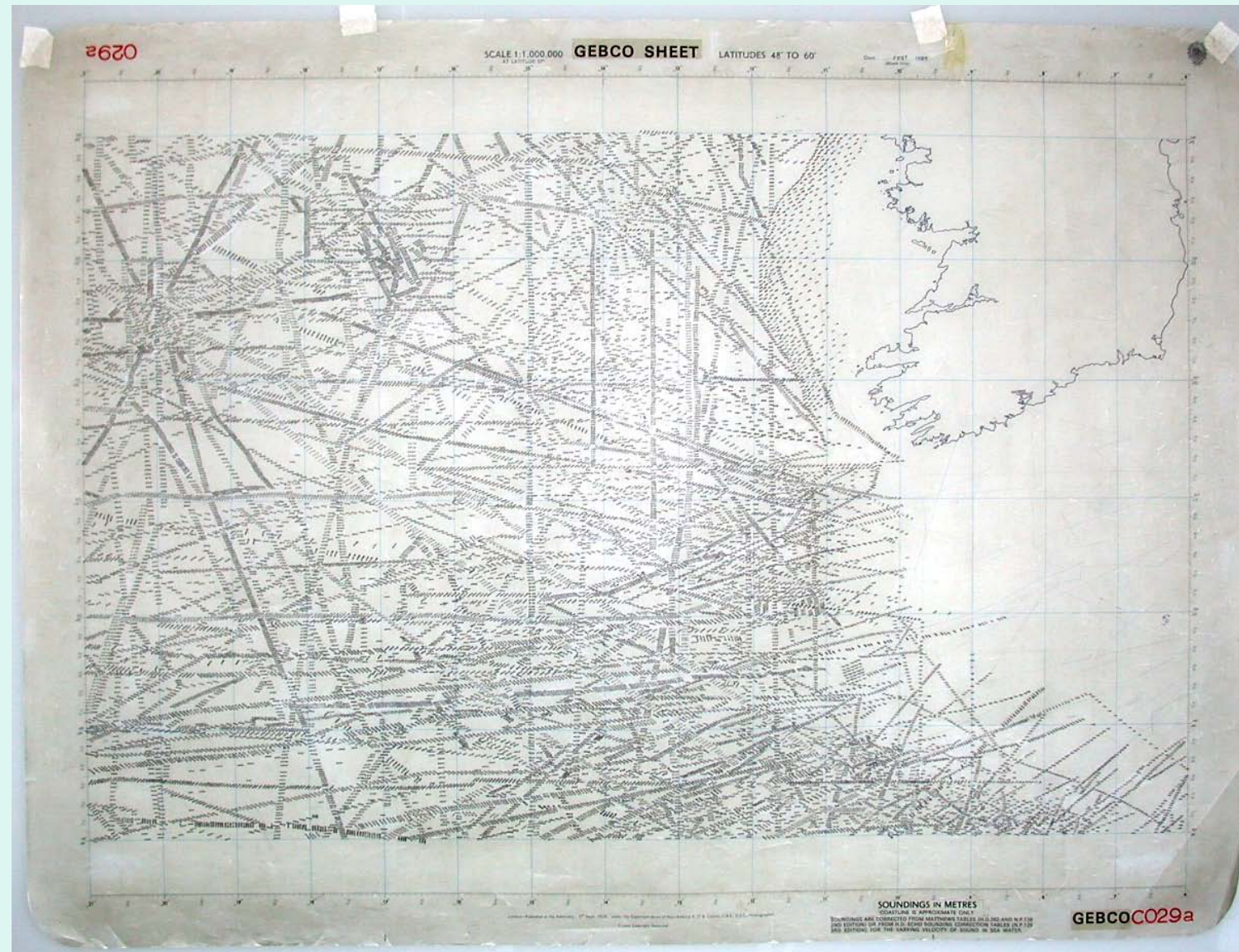


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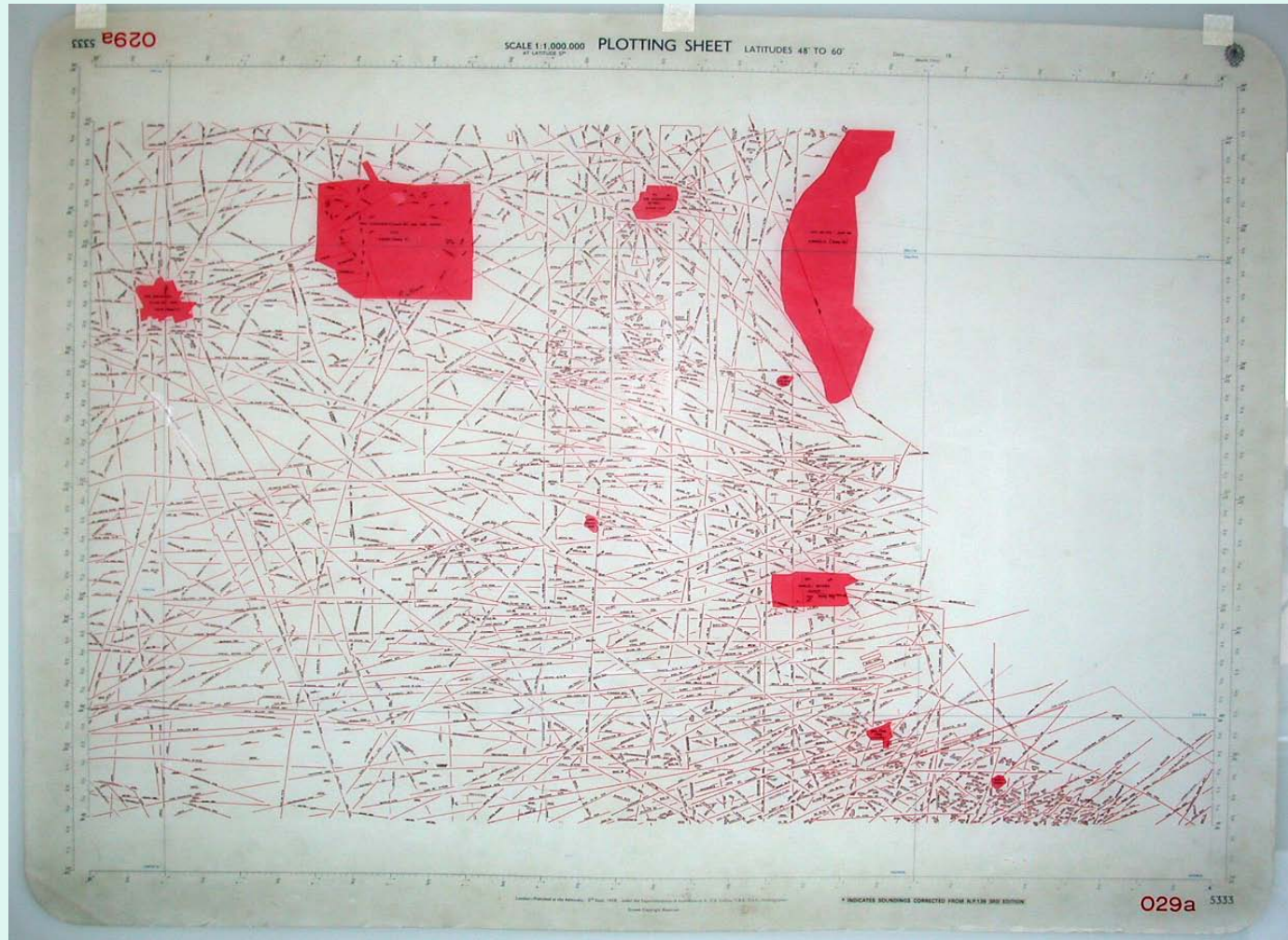


GEBCO Plotting Sheet





Track Sheet Compilation





Plotting a Sounding





Instruments of Compilation





THE REPORT ON
OCEANIC PLOTTING SHEETS
BY THE
IHO WORKING GROUP

SEPTEMBER 1991



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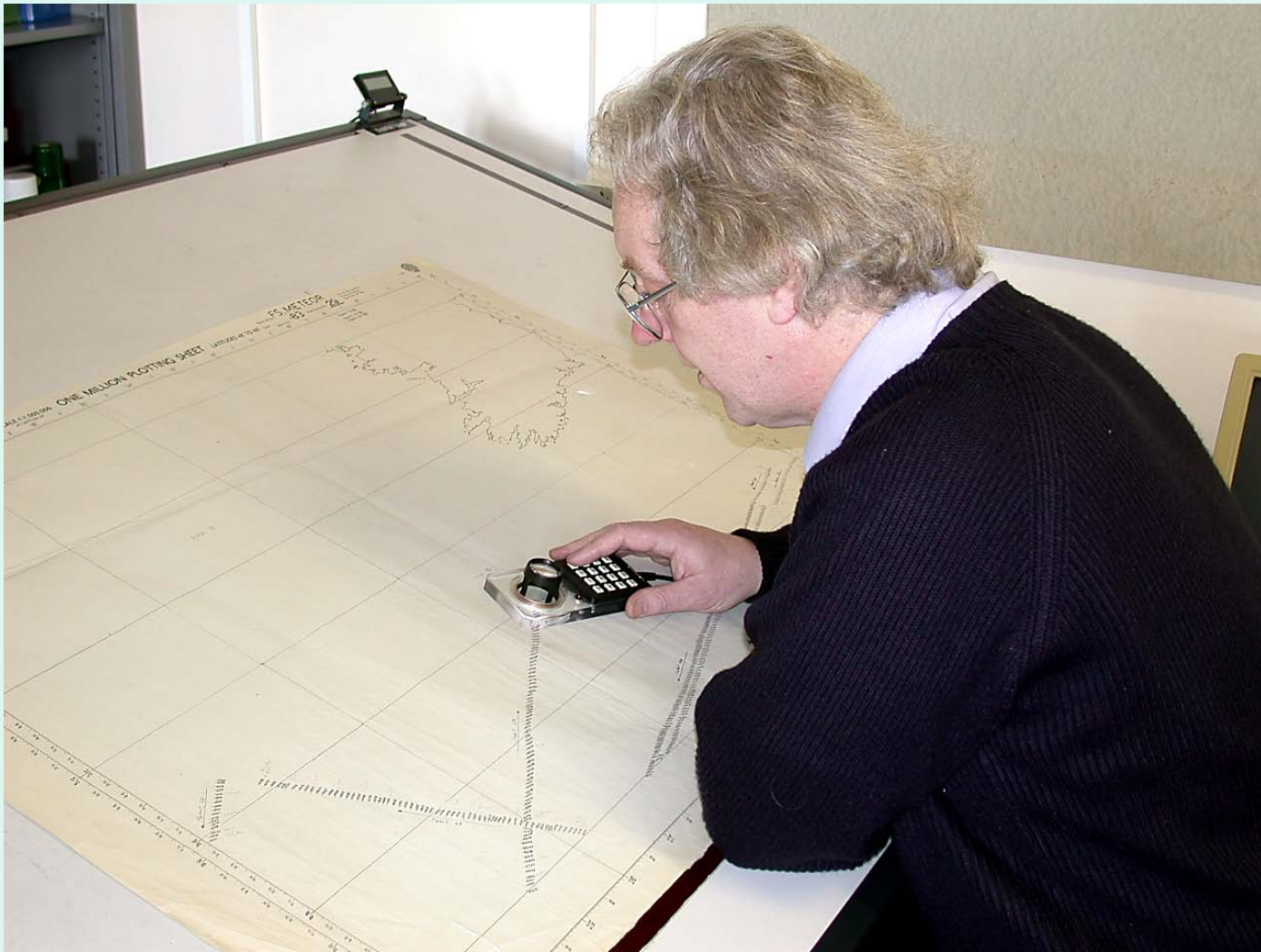
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Cataloguing





Digitizing



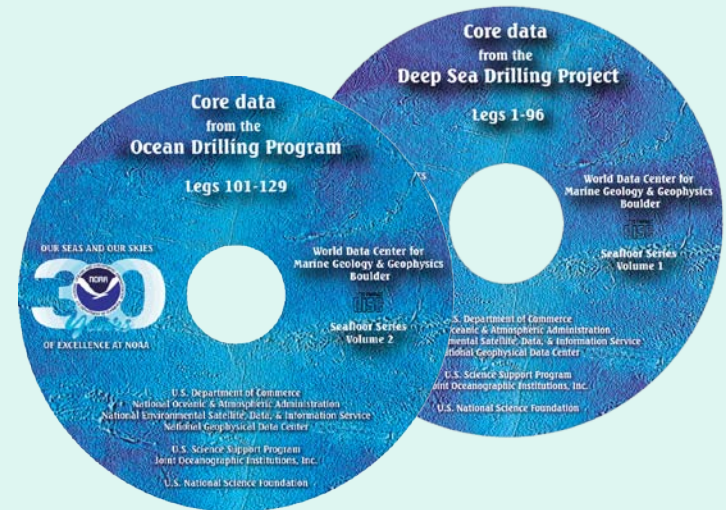


Data Stewardship: Beyond Archiving

Data stewardship, a continuing commitment the quality, utility, and widespread usefulness of data.

Example from the Marine Geology World:
When the DSDP CD-ROMs contained obsolete software, formats, and data structures,
The answer was to replace the 1989/1992 version in 2000/2001 with CD-ROMs containing:

- tab-delimited outputs for direct load into applications
- html interfaces to replace outdated DOS/Mac versions





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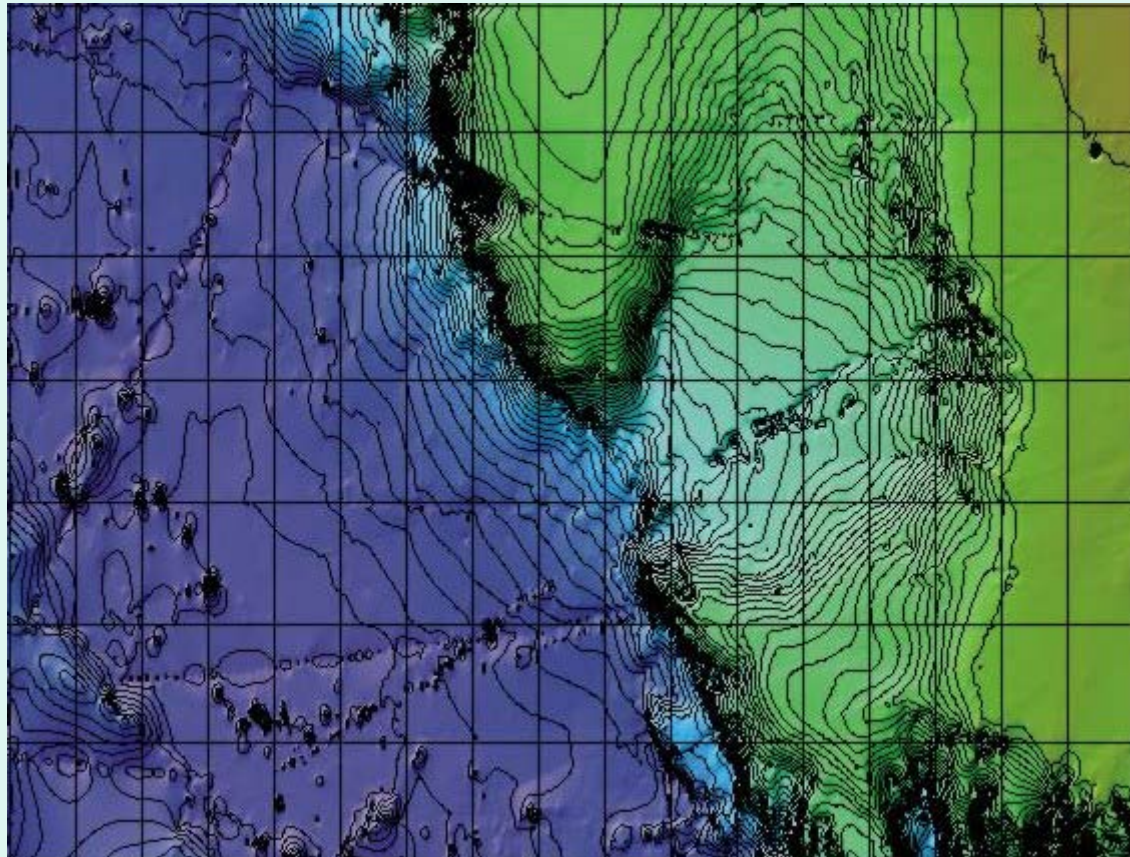
Archiving

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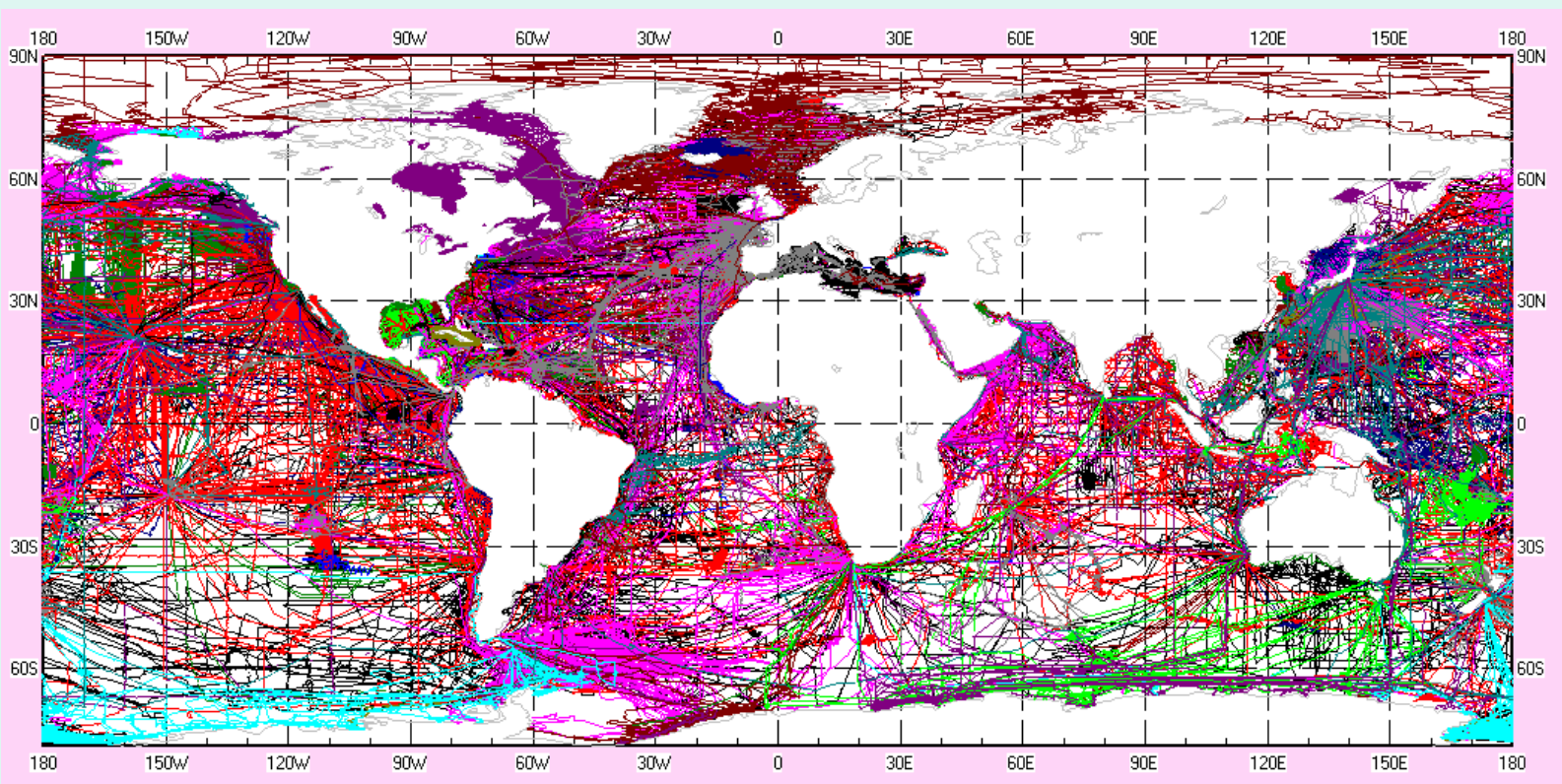
Gridded Data Set





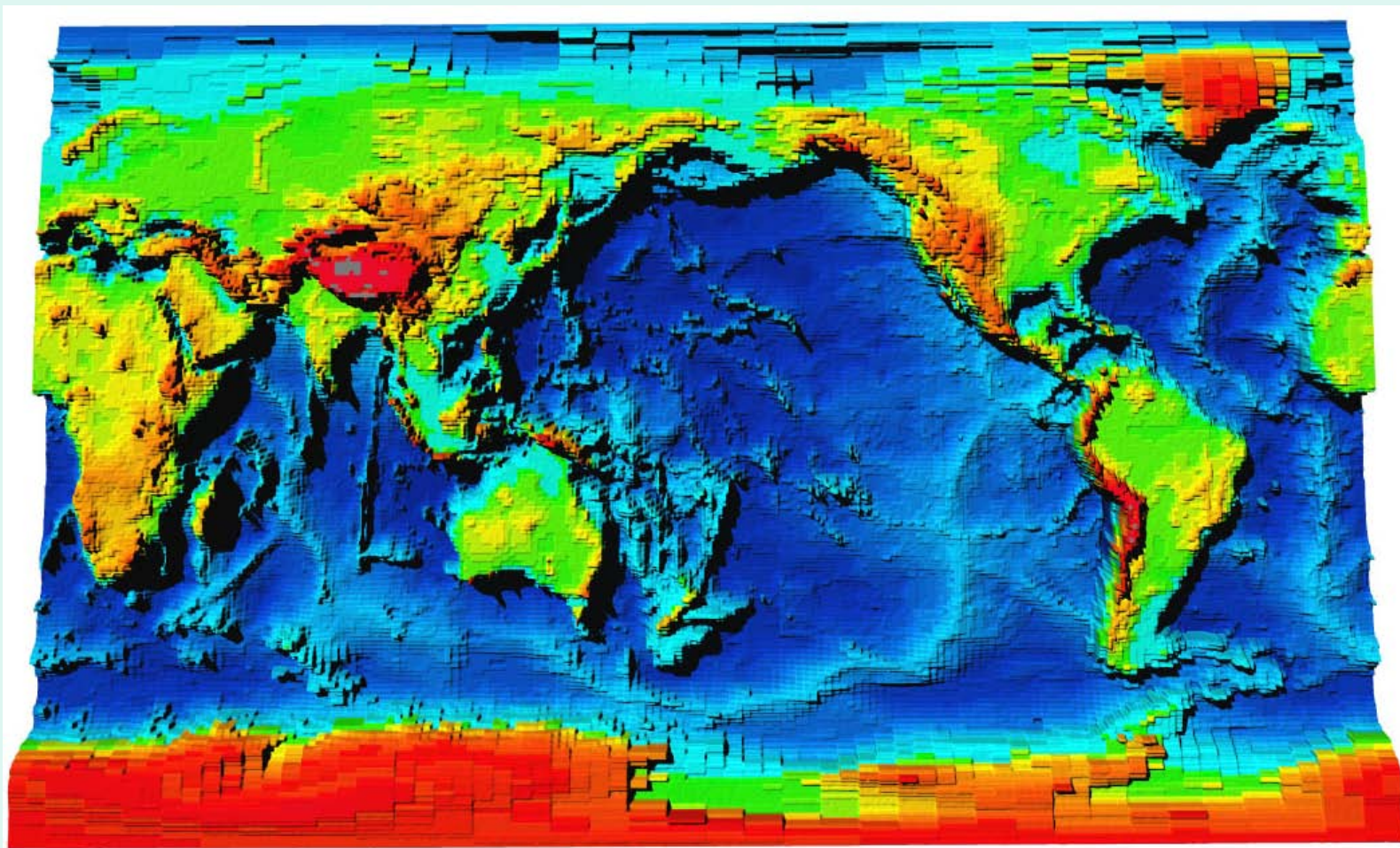
GEODAS Data Distribution

Trackline Geophysics – data holdings



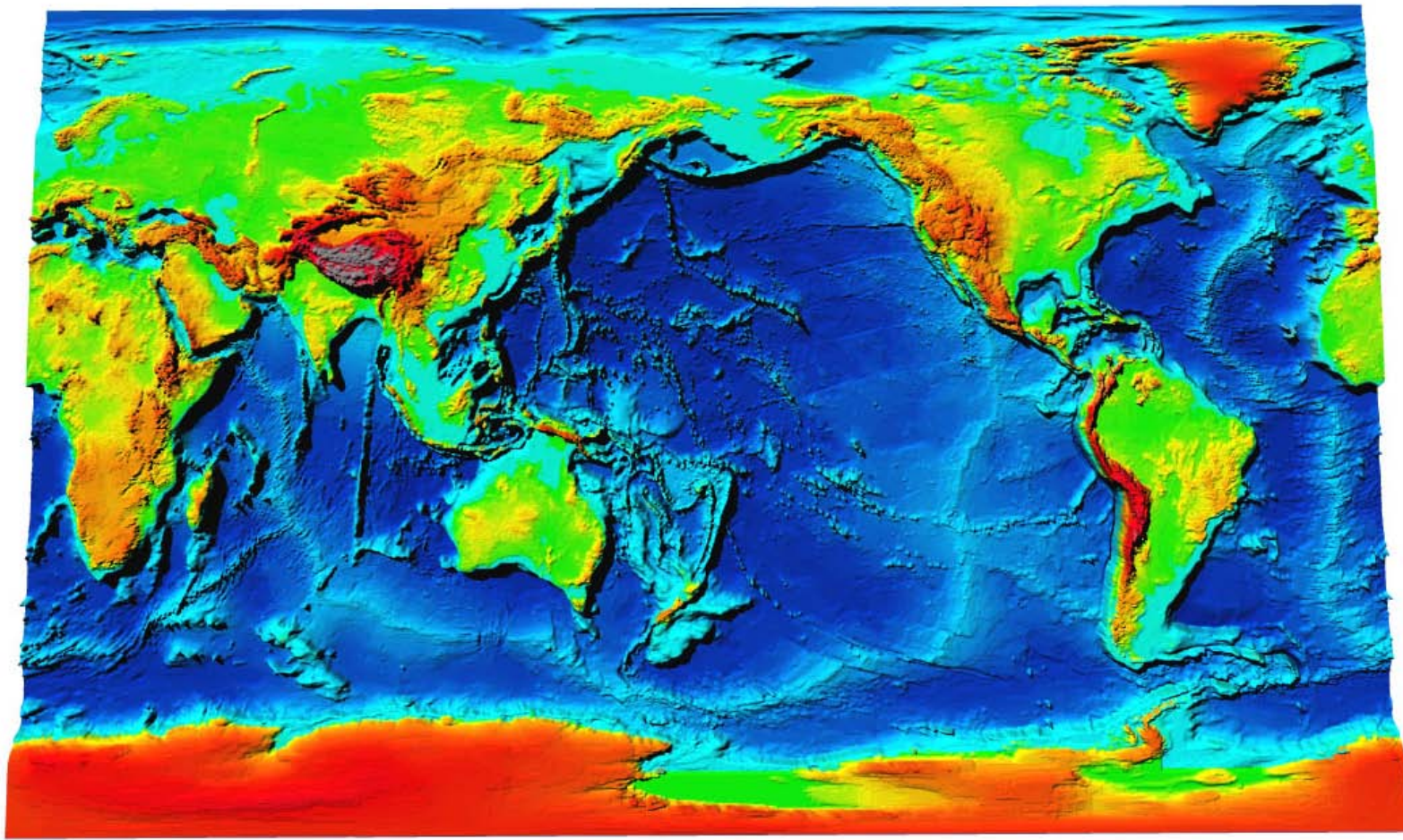


1965



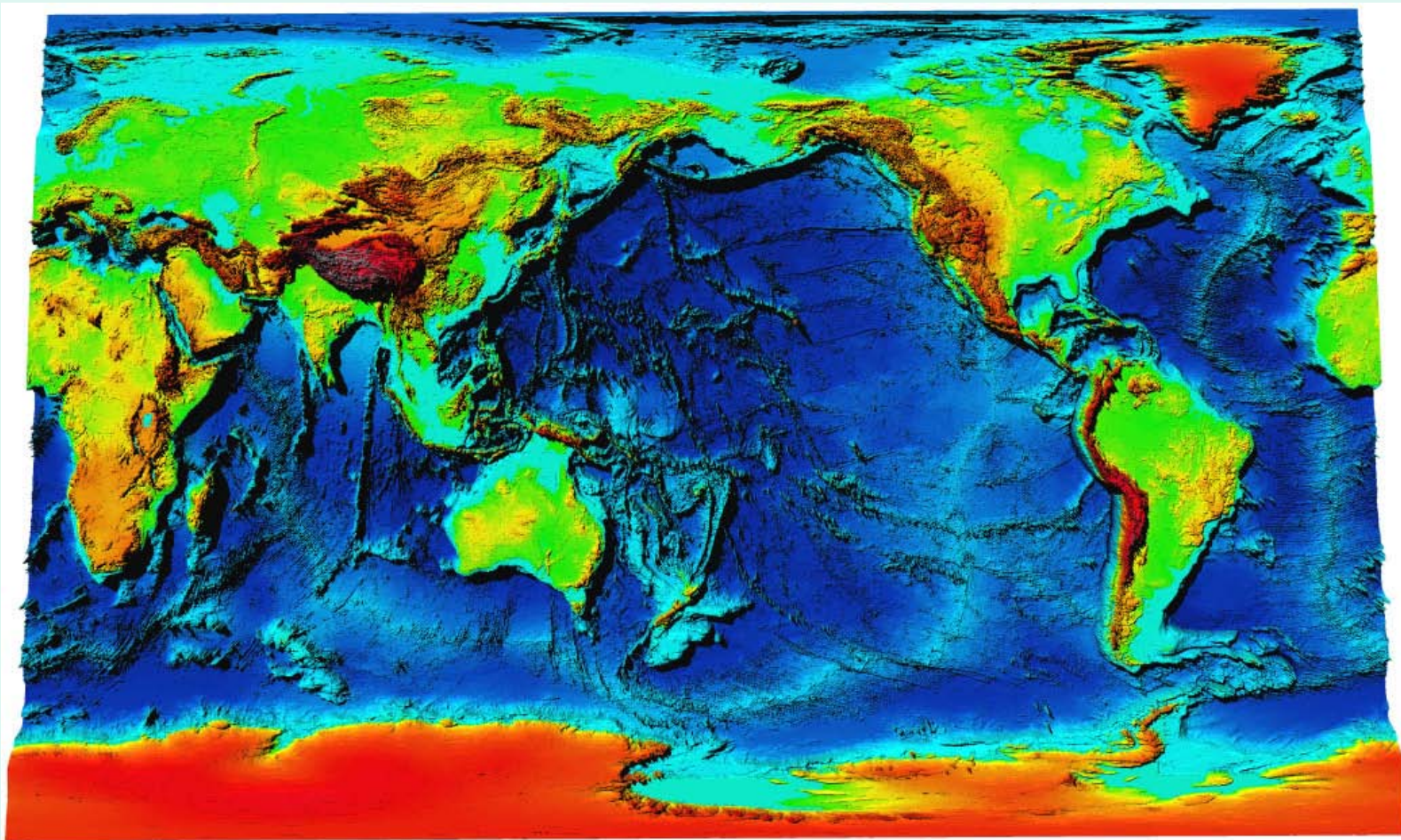


1980





1995





FINIS