INTRODUCTION TO DOSECC

Drilling Observation and Sampling of the Earth's Continental Crust, Inc.

DOSECC

(Drilling, Observation and Sampling of the Earth's Continental Crust, Inc.)

- Non-profit Corporation, formed in 1984
- 52 Member Research Institutions

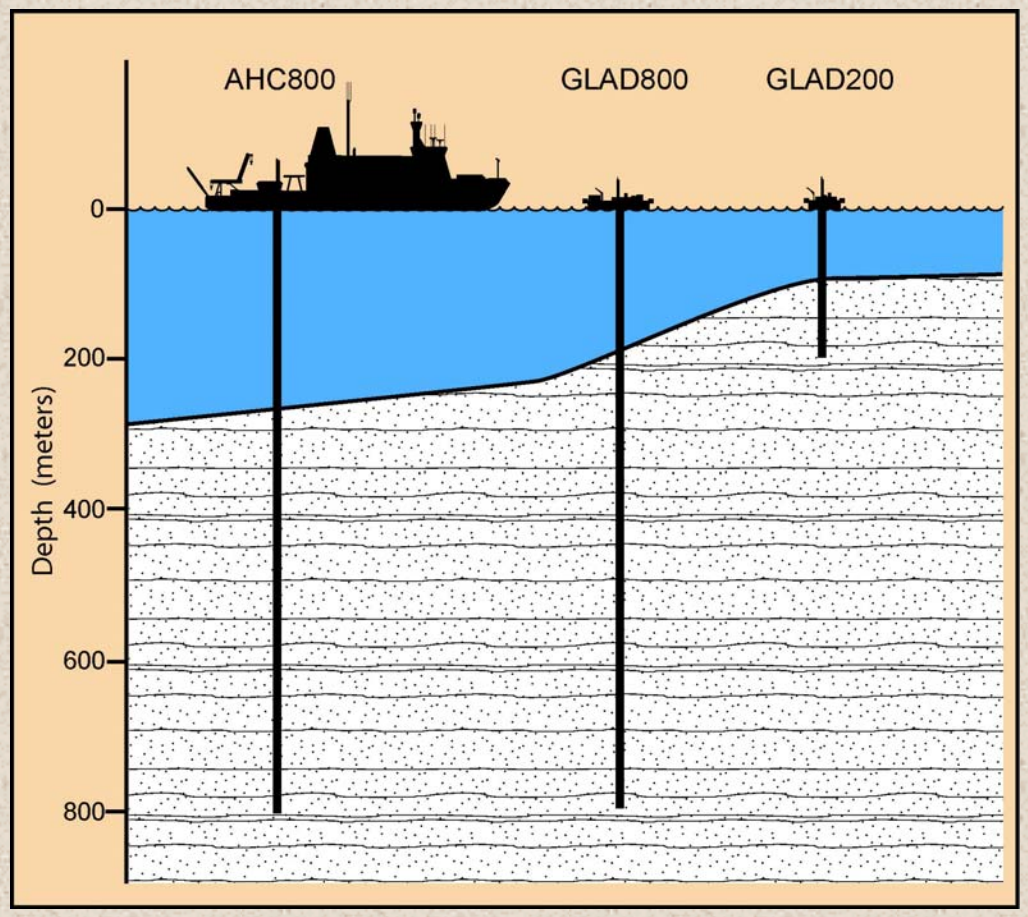
MISSION

DOSECC provides leadership and technical support in subsurface sampling and monitoring technology for addressing topics of scientific and societal importance.

DOSECC's GOALS

- Facilitate and support cost-effective scientific drilling projects.
- Link science and drilling technology
- Design, build and operate drilling systems
- Promote technology transfer and education
- Represent US interests in the international scientific drilling community

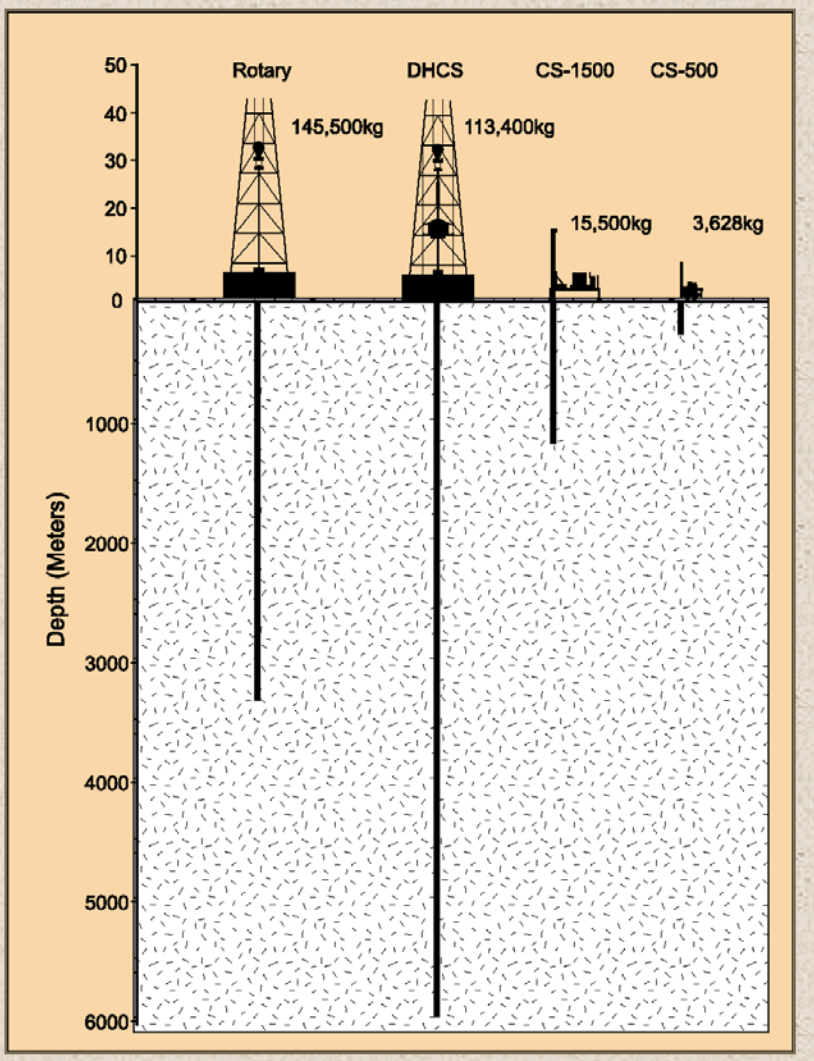
LAKE & SHALLOW MARINE DRILLING RIGS



Max. Depth Capabilities

- AHC800, 800 m
- GLAD800, 800 m
- GLAD200, 200 m

LAND DRILLING EQUIPMENT



Max. Depth Capabilities

- Rotary Rig, 3500 meters
- DHCS, 6000 meters
- CS-1500, 1200 meters
- CS-500, 300 meters

Themes of Scientific Drilling

defined May 2004 by Science Planning Committee

DOSECC ‘s Science Planning Committee Activities

New Structure

- ExCom (Walton, Miller, Ito)
- SPC:Science Planning Committee
- TPC: Technical Planning Committee
- Internship & Education

Themes of Scientific Drilling

defined May 2004 by Science Planning Committee

Environmental Change: Processes and Effects

- Spatial & temporal patterns of climate variability
- Ecosystem responses to climate variability
- Evolution & physical process. sedimentary basins
- Biotic evolution
- Earth's subsurface biosphere
- Early planetary ecosystems
- Water resources

Themes of Scientific Drilling

defined May 2004 by Science Planning Committee

Solid Earth Processes and Geodynamics

- Architecture and dynamics of fault systems
- Magma systems and thermal regimes
- Evolution and deformation of continental lithosphere
- Impact structures and processes

Scientific Drilling Prospectus

- Most Projects are Lake Drilling and/or International (ICDP)
- 2004: Bosumtwi, Ghana; Malawi
- 2005: Qinghai, PRC, Peten-Itza, Guatamala

Hard Rock Schedule

- Hawaii Scientific Drilling Program – 2004
  - Storage @ American Museum
- Chesapeake Bay Impact Structure – 2005
  - 2500 m: short-term cores to Reston & Rutgers
  - Long-term storage at Rutgers
- SAFOD – 2007
  - 1000 m storage ???