

NSF Tasking:

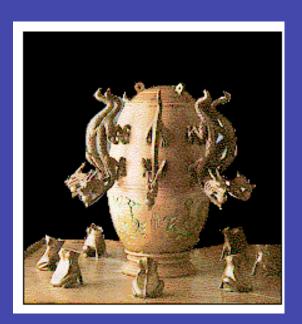
The IRIS Consortium will consult broadly with the research community to develop a new long-range science plan for global seismology that will guide potential future improvements and enhancements to the IRIS facilities.

Note: "global" means the entire discipline, not just deep Earth

LRSPS Process

IRIS Board Selected Tri-Chairs

Rick Aster, Don Forsyth, Barbara Romanowicz



Tri-Chairs Selected LRSPS Writing Committee:

Thorne Lay (Editor), Richard Allen, Vernon Cormier, Joan Gomberg, John Hole, Guy Masters, Derek Schutt, Anne Sheehan, Jeroen Tromp, Michale Wysession and the Tri-Chairs

- This Workshop Defines the Plan Content
- Plan Written and Reviewed by Community
- Delivery to NSF by December 2008......

Tentative LRSPS Structure

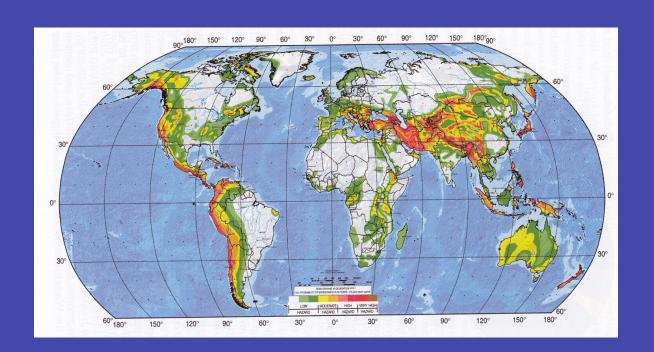
Goal is a 30-40 page document that will include:

- (1) Brief overview perspective of seismology as a discipline with many important scientific roles and key intersections with other disciplines
- (2) ~10 Hot Topical Research Areas Define the scientific problems seismological contribution/challenges/facilities e.g.,
- Quantifying the spectrum of fault motion processes from super-shear to creep
- Real-time warning of ground shaking, tsunami, volcanic eruptions
- Quantifying thermal versus chemical heterogeneity in the mantle Etc., this workshop should identify the examples

(3) ~8 Side-bars on societally relevant seismological applications

e.g., nuclear monitoring, oil exploration, earthquake hazard, ground water monitoring, exotic seismic sources, planetary seismology, etc.

Seismological contributions/challenges/facilities



(4) Summary

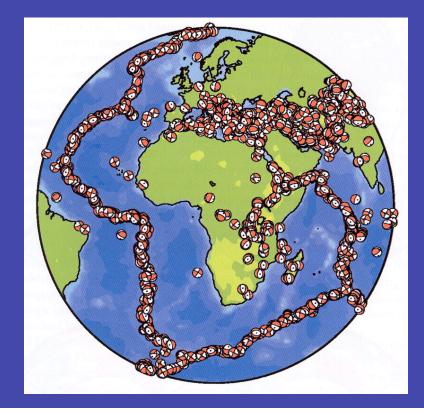
Diversity and centrality of the discipline - major research frontiers

Balance of Large/Small research activities

Personpower/training issues

Community organization

Open Data Access



What is needed for this LRSPS Workshop to succeed?

•Broad, inclusive, and forward-thinking about the discipline and exciting scientific potential of the discipline

•Attractive and understandable GRAPHICS to make visually compelling arguments (Figure captions!, Attribution!)

•Your input on topics to include and emphasize and the nature of facilities that must be sustained or create to achieve the scientific goals

•All contributions will be posted on the Workshop website