Multidisciplinary Workshop:

Integrated Collaborations in Cascadia and the Walker Lane/Salton Trough

Sponsored by NSF, MARGINS and EarthScope-GeoSwath

8 AM – 2:45 PM, March 27, Redwood Room, Portola Plaza Hotel, Monterey CA

8:00-8:10 – Workshop introduction and goals (*Geoff Abers*; introduce committees)
8:10-8:20 – Margins science overview and interests (*Abers*)
8:20-8:30 – GeoSwath overview and interests (*Basil Tikoff*)
8:30-8:35 – Discussion of charges to sub-groups (*Tikoff*)

8:35 – 8:50  **Divide Rooms**

**Group I: Walker Lane / Salton Trough**

*Conveners: Danny Stockli, Paul Umhoefer, Susanne Janecke and Roger Buck*

8:50-9:00 – Introduction to discussions; summary of objectives and program

9:00-9:25 – General overview on the Gulf of California – Tectonic evolution, deformation history, and lithospheric structure (*Joann Stock*)

9:25-9:45 – Coffee Break  (or delayed after 1-2 presentations at option of conveners)

9:45 – 11:00 – Summary talks on ongoing projects in critical regions (15-20 minutes each)
  * Salton Trough tectonic evolution, deformation history, lithosphere structure (*Gary Axen*)
  * Mojave and Eastern California Shear Zone, tectonic evolution, deformation history, neotectonics (*Mike Oskin*)
  * Walker Lane tectonic evolution, deformation, magmatism, lithospheric structure (*Jim Faulds*)
  * Walker Lane workshop on EarthScope/GeoSwath (*Danny Stockli*)

11:00-11:10 - Linking MARGINS and EarthScope; lead into discussion (*Paul Umhoefer*)

11:10-12:00 – Discussion: relationships between areas (driving forces, spatial and temporal deformation, etc.), motivations and opportunities in linking questions from different areas.

12:00-13:00 **Lunch**

13:00-13:30 – Discussion within the Gulf of California to Walker Lane group of how what MARGINS and GEOSCOPE could do to build on EarthScope in the SW United States (led by *Danny, Susanne and Roger*).
  * Attendees invited to present 1-2 slides to stimulate discussion (*loaded during lunch*)

13:30-13:45 **Room reunification & presenters prepare summaries**
Group II: Cascadia Subduction Zone

Conveners: Anne Trehu, Tim Melbourne and Paul Wallace

8:50-9:00 – Introduction to Cascadia discussions; summary of objectives and program (Paul W.)

9:00-9:25 – An overview on the Cascadia Subduction Zone – Lithospheric structure deformation history, and earthquake hazard (Ray Wells)

9:25-9:45 – Coffee Break (or delayed after 2-4s presentations at option of conveners)

9:45-11:00 – Summaries of ongoing projects (5-10 min each)
   • ORION/OOI (Kevin Brown)
   • Offshore geodetic monitoring (Dave Chadwell/Kevin Brown)
   • Geodetic monitoring (Tim Melbourne)
   • Leveling studies and the potential for InSaR and Lidar (Paul Vincent)
   • CAFE experiment (Geoff Abers/Ken Creager/Stephane Rondenay)
   • High Lava Plains CD experiment (Matt Fouch/ Tim Grove)
   • Onshore and offshore paleoseismic record
   • High resolution seismsics and urban seismic hazards (Tom Pratt)
   • Central Cascadia margin – earthquakes and crustal structure (Anne Trehu)
   • Volcano hazards studies of Cascade stratovolcanoes (Tom Sisson)

11:00-12:00 – Discussion within the Cascadia group of how what MARGINS and GEOSCOPE could do to build on EarthScope in Cascadia (led by Paul, Tim and Anne).

12:00-13:00 Lunch

13:00-13:30 – Continued discussion within the Cascadia group of how what MARGINS and GEOSCOPE could do to build on EarthScope in Cascadia (led by Paul, Tim and Anne).
   • Attendees invited to present 1-2 slides to stimulate discussion (loaded during lunch)

13:30-13:45 Room reunification & presenters prepare summaries

Plenary Session

13:45-14:45 – Wrap up session (led by Geoff Abers and Basil Tikoff)
   • 10-15 minute summaries from each group.
   • General discussion of what is missing in current projects and what needs to be done in the context of Margins/EarthScope/ GeoSwath.

14:45 Meeting adjourned. Meeting organizers and sub-group leaders meet to outline meeting report and get writing assignments.