## CoSOI Working Group on Global 3D Seismic Model for Seismic Observatory Applications

Progress since IASPEI meeting in Melbourne (2011)

Working group established in 2012 Initial focus on using 3D models for location Two options for travel time computation identified

3D ray tracing

Numerial Eikonal solvers

Approaches for implementation

On-the-fly calculations

Precomputation (3D lookup or corrections for each station/phase)

Other implementation issues

The full list of IAPSEI phases may not be computed by all 3D models Rough and discontinuous travel time derivatives w.r.t. event location Path-specific uncertainty.

Metrics for improved performance.

Steve Myers, WG Chair