Draft Lecture and Tutorial Plan for CIDER 2015
version 2015/05/21

Week 2 (first lecture week) – July 6-10

July 6 –
L0. **Plank** – Introduction to Science Program
L1. **Bercovici** – - solid earth dynamics, connections to volatiles & climate
L2. **Chamberlain** – climate dynamics, connections to the solid earth
T1. **Montesi** - Geodynamics Tutorial

July 7 -
L3. **Raymo** – sea level, climate and dynamic topography
L4. **MacLennan** – volcanoes, ice and ocean loading/unloading, CO_2
T2. **James** – Weathering Tutorial

July 8 -
L5. **Pagani** – paleoclimate models and sensitivity
L6. **J. Davis** – what is sea level? variations in space & time
T3. **Malinverno** – Marine Organic Carbon Tutorial

July 9 -
L7. **Hirschmann** – melting, deep Earth water and carbon
L8. **Faul** – rheology (mantle deformation)
T4. **Wallace** - Petrology Tutorial ABS/MELTS/SOLEX

July 10 -
L9. **J. Davis** – measuring solid Earth deformation
L10. **Teagle** – oceanic crust - fluid/volatile interaction, CO_2 storage
T5. **Faul/McCarthy** - Rheology Tutorial

Week 3 (second lecture week) – July 13 - 17

July 13 -
L11. **van der Wal** – sea level, GIA, and loading, lateral variability
L12. **Wallace** – CO_2 and H_2O from subduction zone to volcano
T6. **Pollitz** -- Geodynamics Tutorial -- mantle dynamics & postseismic deformation

July 14 -
L13. **Moucha** – mantle flow and modeling of surface deformation
L14. **Derry** - Carbon cycle
T7. **Fischer** Volcanology Tutorial -- volcanic gas fluxes & measuring CO_2

July 15 -
L15. **TBD** – climate-tectonics-landscape
L16. **Wiens** – seismic imaging of Earth structure, applications to volcanic arc and glacial problems
T8. **Sauber/Freymueller** Geodesy Tutorial -geodesy data products

July 16 -
L17. **McCarthy** – rheology (master curves, rocks and maybe ice) -
L18. **TBD - Langmuir ? –** ocean/glacial loading drives volcanism
T9. **Wiens** -- Seismology Tutorial

July 17 -
L19. **Sauber** – loading, crustal deformation, earthquakes
L20. **Fischer** – Magmatic and tectonic gas fluxes to the atmosphere
T10. Discussion of projects