2016 USArray Introductory Data Processing Short Course

WELCOME!

1. Goals
2. Background
3. Day to day
4. Computers
5. Themes
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Goals:

- *Provide exposure and training* in seismic data processing methods
- *Address and share opportunities and challenges* in USArray data processing,
- *Empower and inspire you* to develop more effective ways to handle data from large seismic arrays, such as USArray.
2016 USArray Introductory Data Processing Short Course

Philosophy: Hands-on and Collaborative

Final Student Projects: Design, not Develop!
Logistics

• Folders: Agenda, project instructions, maps

• Name badge and library access card

• Lunch vouchers for each day

• Log out at end of day & sit at same iMac next day

• Water fountain opposite elevators

• Water bottles in the back of room
Logistics

• No food and open drinks in the computer Lab!!
• Breakfasts (for rest of week): Hilton Orrington
• Restrooms: In lower level (L) and on floor 2, by elevators/stairs
• Lunches: Norris Student Center
• Dinners: Mt Everest (today) and Todoroki Hibachi (Thu)
Logistics

• Short course software: both free and licensed.
• Final project presentations on Friday.
• Project time in this lab after dinner each day until 9 pm and Thursday afternoon.
• Also available: Collaboration Space, South of entrance Hall
Computer Lab Work

• work *locally* on /Users/usarray/ … Desktop/USArray_Course

• remember iMac number and work at same one each day in order to have your previous day’s work

• raw data (for down-copying only) and e-handouts are on the *shared* disk /Volumes/USArray or through shared-drive icon on Desktop

• *never* change anything on /Volumes/USArray (unless specifically asked by an instructor)

login: usarray
Your *local* workspace: /Users/usarray/Desktop/USArray_Course

Our *shared* data and exchange space /Volumes/USArray
Short Course Daily Themes

- **Monday:** *Introduction to the Basics, USArray, and Key Tools*
- **Tuesday:** *Accessing Data, How to Approach Coding, and Structural Analyses (Python, AIMBAT, FuncLab, SplitLab)*
- **Wednesday:** *Waveform analyses and how to collect and utilize new data (SAC, instrument response, databases)*
- **Thursday:** *Broader Considerations and Project Work Day*
- **Friday:** *Discussion:* Group projects discussion
THANKS!!

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Bob Trautvetter

Krystin Poitra
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Rob Porritt
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