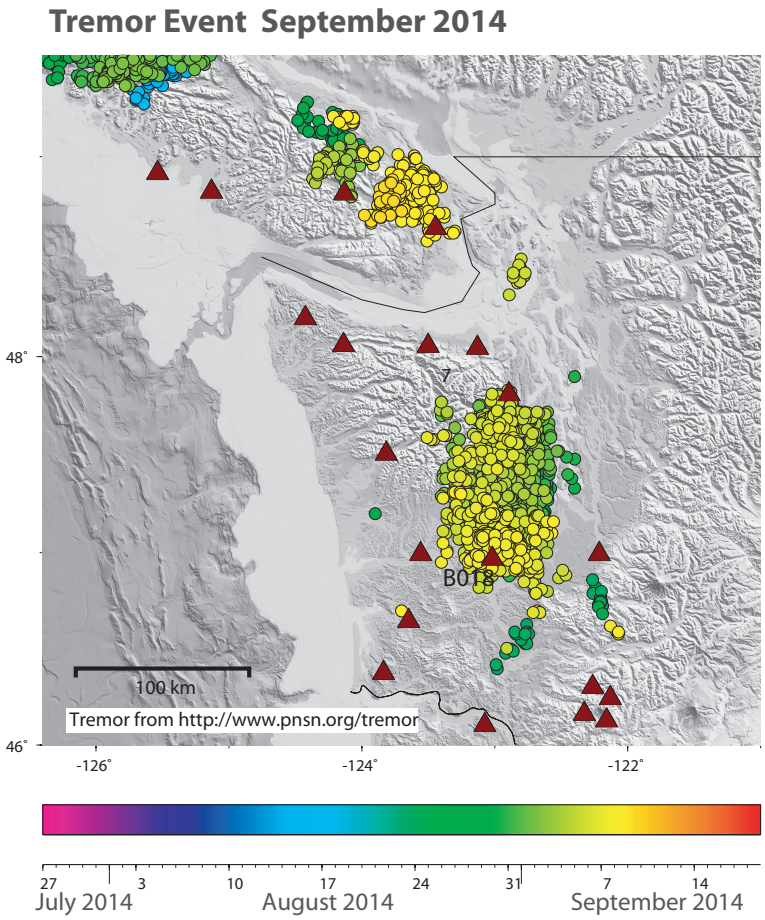
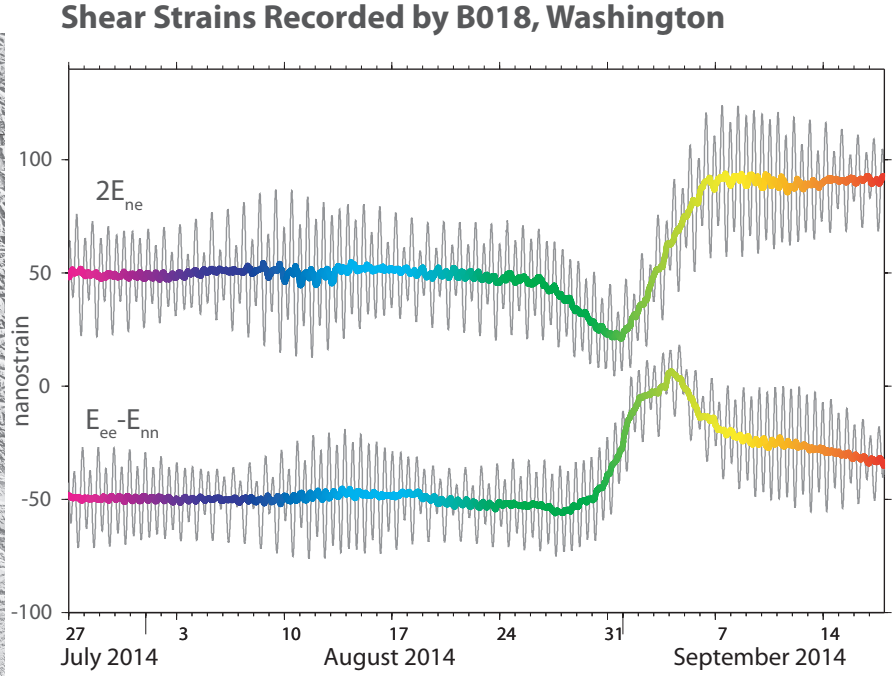
DOWNLOADING LEVEL 2 DATA





An Episodic Tremor and Slip Event

ftp://bsm.unavco.org/pub/bsm/level2/delphi018bor2006/

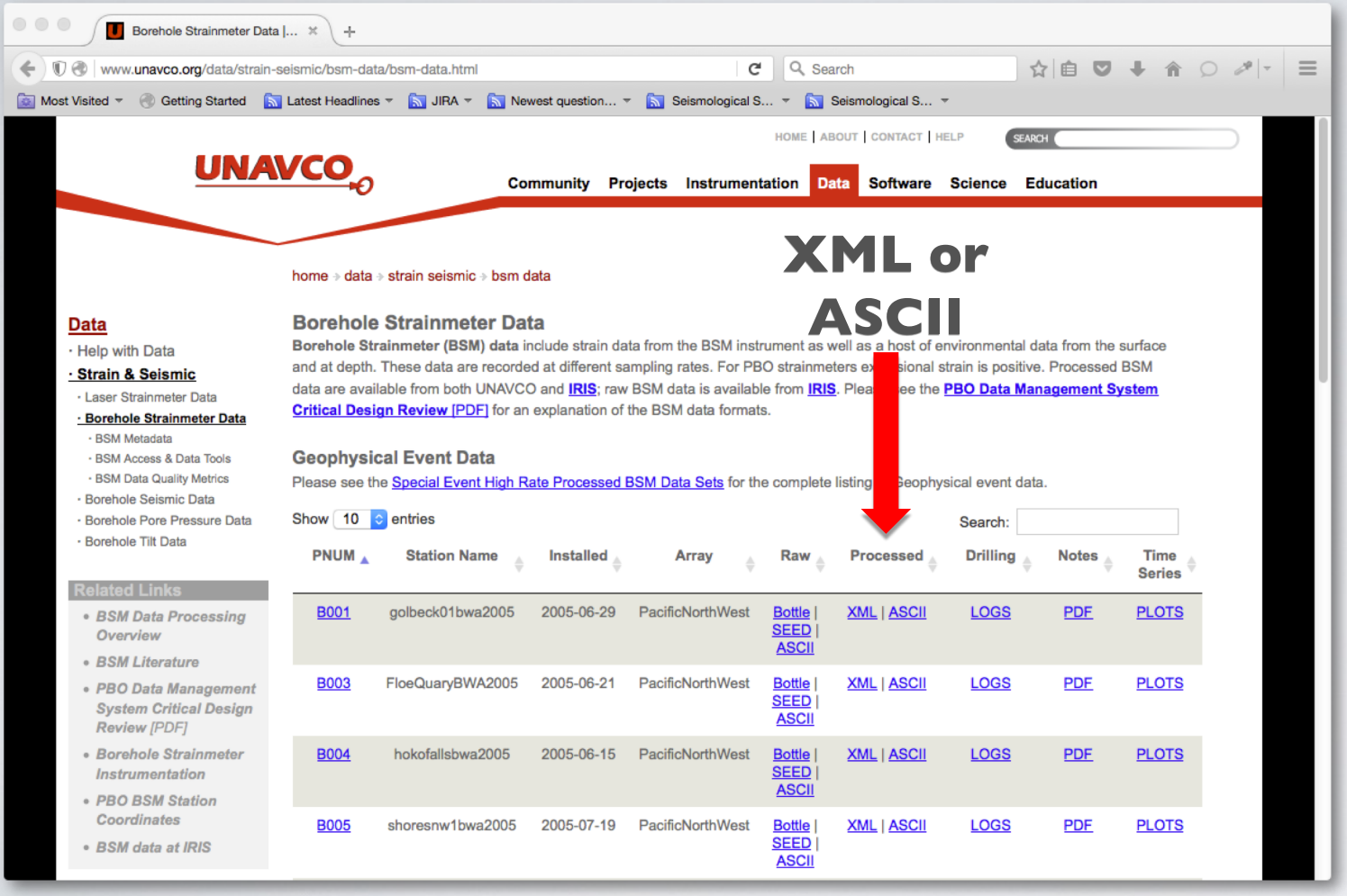
Level 2 Processed data

DOWNLOADING LEVEL 2 DATA

Default Level 2 Product: UNAVCO generates 5-min interval processed strain for BSM and LSM

- Gauge measurements in units of strain
- Areal and shear strains
- Earth tide + ocean load corrections
- Very basic trend model
- Barometric pressure correction
- Bad data flagged, offsets estimated

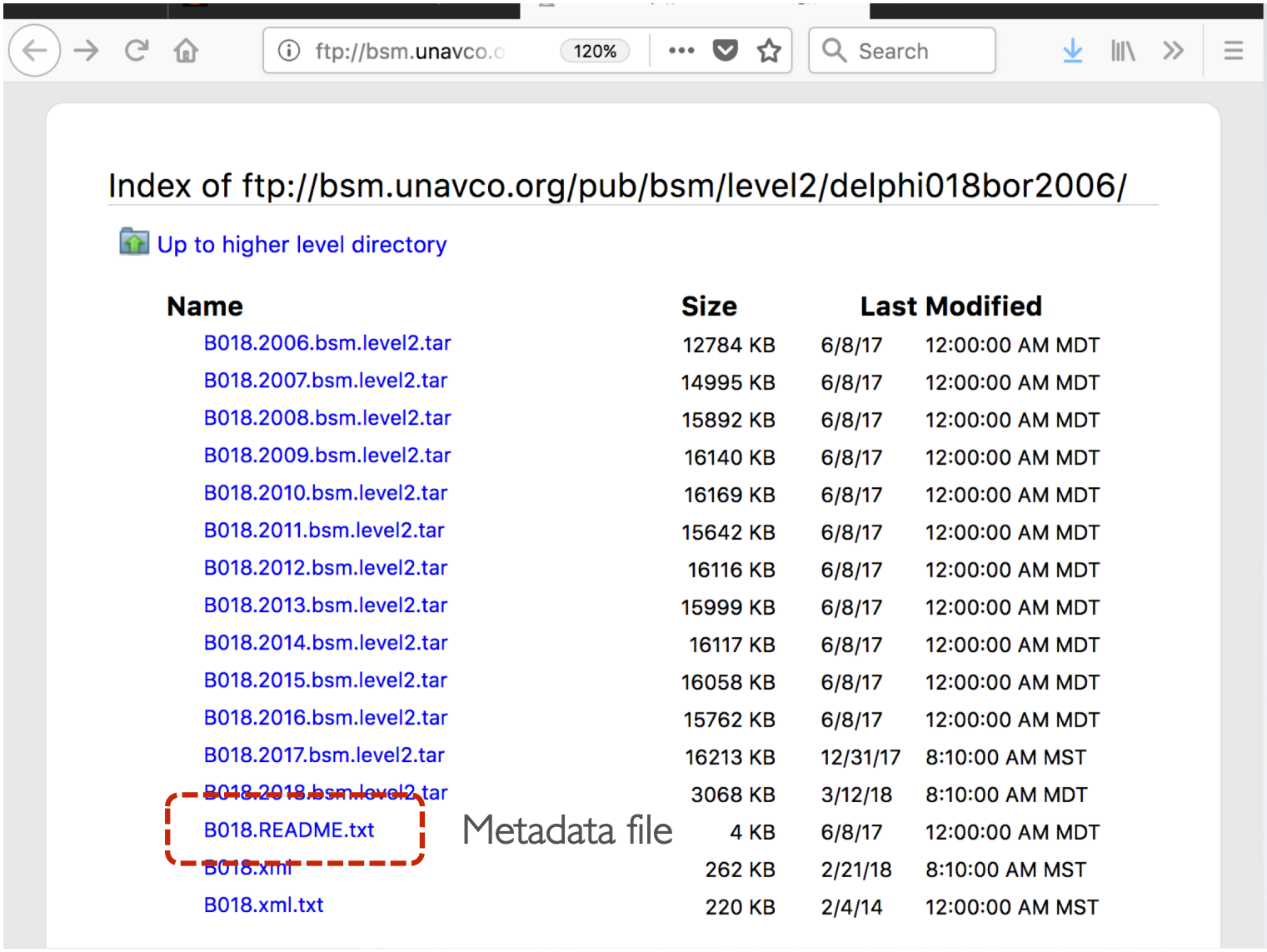
DOWNLOADING LEVEL 2 DATA



Default Level 2 Product: UNAVCO generates 5-min interval processed strain for BSM and LSM

We will use the ASCII format

LEVEL 2 STRAIN DATA



File naming convention enables download via cron.

LEVEL 2 STRAIN DATA

We will use **get_strain_l2.bash** in the **CLASS/level2** directory

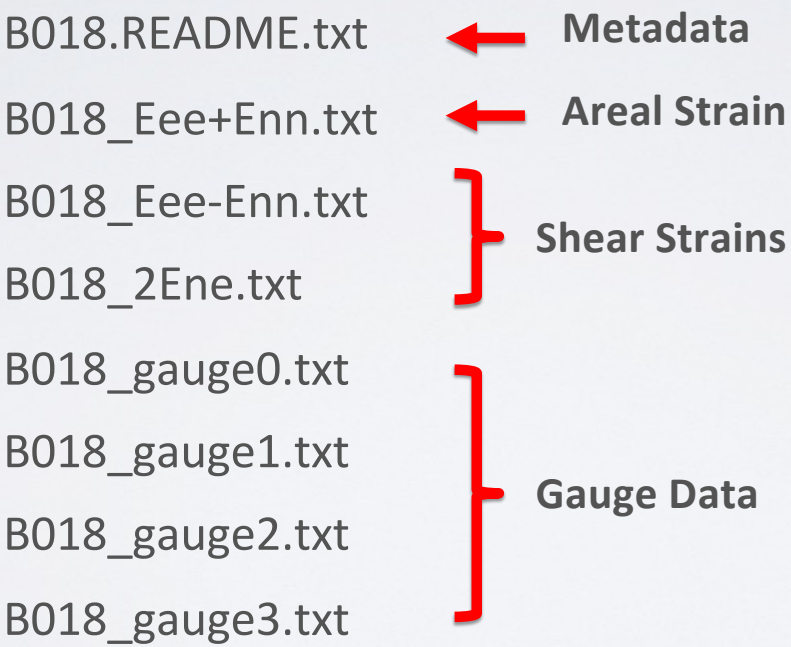
> **get_strain_l2.bash B018 2014-07-01 2014-10-01**

This does the following:

1. Downloads the Level 2 time-series from UNAVCO
2. Selects data for the specified time window
3. Downloads the Level 2 metadata file

LEVEL 2 STRAIN DATA

This creates a directory called **B018**, it contains



LEVEL 2 STRAIN DATA

This creates a directory called **B018**, it contains

B018.README.txt ← **Metadata**

B018_Eee+Enn.txt ← **Areal Strain**

B018_Eee-Enn.txt
B018_2Ene.txt
} **Shear Strains**

B018_gauge0.txt
B018_gauge1.txt
B018_gauge2.txt
B018_gauge3.txt
} **Gauge Data**

- **Edited**
- **Quality marked**
- **Ready for analysis**

LEVEL 2 STRAIN DATA

- Description of data, gauge0, gauge1 etc.
- Date, YYYY-MM-DDTHH:mm:ss
- Day of year
- Modified Julian Date
- Strain (microstrain). No offsets, trends, tides or barometric corrections have been applied.
- Running sum of offsets
- Strain data quality flag (g=good, b=bad, m=missing)
- Tidal correction (microstrain)
- Borehole trend correction (microstrain)
- Barometric pressure correction (microstrain)
- Barometric pressure data quality flag (g=good, b=bad, m=missing, i=interpolated)
- Level, quality (2a= rapid processing, 2b=post processed)
- Version, data generation date
- Barometeric pressure (Kilo Pascals)

LEVEL 2 STRAIN DATA

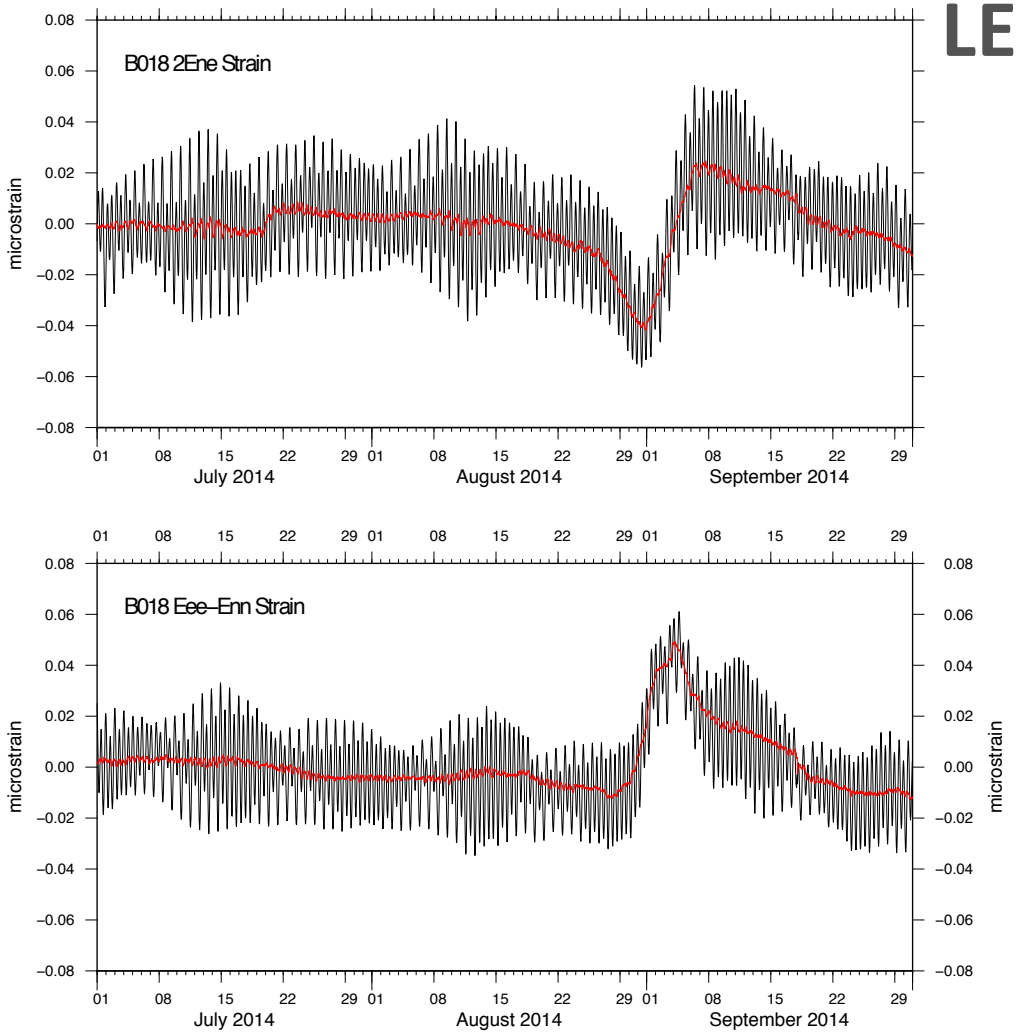
Plot with the GMT script **plot_l2.bash**

% **plot_l2.bash B018**

Creates

B018.ps

LEVEL 2 STRAIN DATA



Shear strains

Residuals after tides, barometric pressure and trends removed