Global Seismology

Overview

- More of the same
- Improvements
- Observables/Data Products
- Peakbagging Algorithms
- Key Questions

More of the same

- Continue Medium-l program

  -Low and medium degree mode parameters etc.

- Dynamics all the time

  -Ridge fits

Improvements

- Higher cadence
  -Higher maximum frequency
  -Less aliasing at fixed frequency
- Higher continuously available maximum degree
  -Probe closer to surface
- Less aliasing for medium degrees ($l \leq 300$)
  -Current Medium-l program has significant aliasing
  -Fewer systematic errors at medium degree
- Not cropped like Medium-l.
  -Better signal to noise
  -Decrease in size of leaks

Observables/Data Products

- Binned to TBD resolutions

  -Provide continuity

  -Can do V/I/Ld/Ew/X all the time

- SHT's to TBD degree

  -Continue Medium-l and dynamics

  -Go even higher?

Peakbagging Algorithms

- Global modes

  -'MDI' (old Fourier Tach) algorithm

  -Uses leaks, does asymmetry, horizontal displacement, Woodard effect (the old fashioned one), even individual m's if anybody cares

  -Others exist

- Ridge fitting

  -Several exist

  -How far in l ?

- Other variables than V?

Key Questions

- How long to continue present Medium-l program?
  -Better possible
- Which Medium-l algorithm(s) to use?
- Which ridge fitting algorithm(s) to use?
- Maximum l for ridge fitting?
  -Current code goes to l=1800 but fixable
- Do other variables?
- What time chunking?