

TL Forecasts For MB06

On each day, the TL realizations based on SVP prediction generated by HOPS are computed. Each mat file corresponds to the date shown in the it's name. In each mat file, there is a structure variable TL_forecast, which is defined in Matlab R13 and contains information about

1. Bearing (B1 to B8; B1 is the North, B2 is the NorthEast.)
2. Frequency (f =100 Hz or 400 Hz.)
3. Source depth (sz=5m, 40m, or 80m.)
4. TL_realizations (a $p \times m \times n$ matrix. p is the number of realizations; m is the number of receiver depths; n is the number of sampling points at a depth.)
5. dr, ndr (they are parameters used in RAM. dr*ndr is the horizontal resolution.)
6. dz, ndz (they are parameters used in RAM. dz*ndz is the vertical resolution.)

For example, TL_forecast.B1.f100.sz5.TL_realizations is for bearing 1, 100Hz and source depth being 5m.

The central location is Lat=36.9414, Lon=-122.2232. In TL_realizations, the first column is dr*ndr away from the conral point; the first row is at the surface. The max range is 15km.

Using plot_out.m, 16 figures will be generated, in which there are 9 subplots. See 8_16_06_B5f100.png as an example.