

Geometry

Scripts: create_geom.m
 create_geom2.m
 process.m

outputs: aux_los.mat : auxiliary channels
 surf_los.mat : channels for surface geophones
 line_sort.mat : sorted data

temp outputs for acquisition report: ffr.mat
and testing ffr_bigrot.mat
 ffr_fb_first_neg_phase.mat

Basic editing, fb pick and bandpass filtering

Outputs: line_ed.mat :
 line_ed_fb_first_neg_phase.mat : old file (first negative phase picked as FB)

Predictive decon to remove ringing

Scripts : preddec_bigrot.m : apply pred decon on ringing maximized in 1 comp

Outputs: line_bigrot.mat
 bigrot_unrot.mat

Rotation

Scripts: select_h1_ldv.m : select mean azimuth for H1
 qc_dsi_large.m
 qcsheet_large.m
 qcsheet.mat

 prep_dat_for_rot.m : prepare data for rotation
 rot_los.m: apply rotation to data with ringing
 rot_los_bigrot.m : apply rotation to data after preddec dec

outputs: h1_azimuth.mat : H1 azimuths for data with ringing on H comps
 h1_azimuth_bigrot.mat : H1 azimuths for data after preddec
 line_rot.mat : rotated data (with ringing) using mean angle (h1_azimuth.mat)
 line_rot3c.mat : rotated data (with ringing) using rot3c.m (DSISoft function)
 bigrot_unrot_rot.mat : rotated data (after preddec) using mean angle
 (h1_azimuth_bigrot.mat)

Editing and FB mute

Scripts: ed_and_mute_fb.m : mute fb and kill some traces

outputs: bigrot_fb_mute.mat : un-ringy data without FB

line_fb_mute.mat : ringy data without fb
copy_of_hw_for_line_fb_mute.mat
copy_of_hw_for_line_rot.mat

Remove downgoing S-waves

Scripts: remove_swaves.m : remove S-waves
 remove_swaves1.m : remove S-waves
 rm_sw_all.m : call the previous scripts for different input files

outputs: bigrot_nosw.mat : data without ringing
 line_nosw.mat : data with ringing
 hw6.mat : copy of header word 6 (dead traces)
 picked_swaves.mat : copy of header word 16 (picked times for S-waves)

Fk filter

Scripts: ap_fk_filt.m : apply the fk-filter

outputs: bigrot_fkfilt.mat : un-ringingy data after fk filter
 line_fkfilt.mat : ringingy data after fk filter
 picked_poly.mat : polygon used to reject spectrum area in ap_fk_filt.m

Prepare data for migration

Scripts: call_prep.m : call the following script for several input files
 prep_cfmig.m : convert 2 segy +other stuff

outputs: SEGY files in ../SEGY directory

other scripts

call_resamp.m : resamp the data from .5msec to 1msec
ener.m : energy balancing with possibility to remove balancing
vaplotrec.m : plot records