Bandpass filter: 10.5-13.5 s Summer Winter (a) CZ.PRU(Z), Stack(Jun,Jul,Aug), Filter(10.5-13.5s) CZ.PRU(Z), Stack(Jan, Feb, Dec), Filter(10.5-13.5s) (km) Interstation Distance (km) Distance (Interstation 200 ---- Signal ----- Signal ---- Noise ---- Noise -500 -400 -300 -200 -100200 -500 -400 -300 -200 -100100 100 300 200 300 400 500 0 Time (s) Time (s) (b) 315° mean SNR = $13.212_{80^{\circ}}$ mean SNR = $11.844_{80^{\circ}}$ (C) -48 ر ج Causal-to-Acausal Ratio (dB) 270° -24 180° 180°