

D" layer silent earthquakes by Matsushiro 100m extensometer strain records

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We have been searching for days when Earth's eigenmodes who have large oscillation energy at around D" layer immediately above CMB and are not associated with large seismic events are dominated in the spectral of the 100m extensometer records at the Matsushiro Seismological Observatory. Among a few candidates we have found are Dec., 24, 1999 and Jan. 10, 2000. In Jan. 10, 2000, 0S5(1190s), 0S7(812s), 0S9(634s), 0S10(580s), 0S11(537s), 0T4(1306s), 0T5(1077s), 0T6(927s), 0T8(737s), 1S8(556s), 1T3(694s), 1T4(631s), 1T7(475s), 2S5(660s), and 2S7(536s) are identified at frequencies lower than 2mHz.