



Superconducting Gravimeter Data for the IRIS Seismology Database: Application to Normal Modes from the Sumatra Earthquake

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For several years, it has been the goal of the Global Geodynamics Project (GGP) to convert high rate acceleration data recorded on superconducting gravimeters (SG) to a format compatible with the seismic data archived at IRIS. The problem for the GGP community has been to properly establish the metadata for characterizing the response of the instrument, particularly its phase characteristics. Although SG data exists at IRIS from the Membach GGP station in Belgium, up to now most of the data from the GGP network has been on hold until the response problem was solved. This we have now been able to do, and we hope to show that data from the Strasbourg SG station will be at IRIS and available. We will also upload all the data from the SGs from after the Sumatra earthquake and show some results on normal mode analysis that demonstrates the benefit of the good amplitude calibration feature and high precision of the SG instruments.