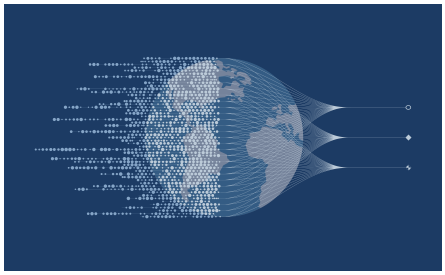

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# of Data from Seismic Monitoring Network around Syowa Station, Antarctica

Seismic observation at Syowa Station (69.0°S, 39.6°E; SYO), Antarctica started since 1959 associated with the International Geophysical Year (IGY; 1957-1958) campaign. Since the establishment of the INTELSAT telecommunication link, digital waveform data have been transmitted to the National Institute of Polar Research (NIPR) for the utilization of phase identification more clearly. Arrival-times of the teleseismic phases, such as P, PKP, PP, PKKP, S, SKS have been detected with reporting to the International Seismological Centre (ISC), then published as "Data Reports" by NIPR. Seismic phase travel-times data incorporated with annual catalogs of detected teleseismic earthquakes are particularly focused on, along with data utilization for public usage. Recorded waveform data, seismic-phase travel-times and corresponding earthquake catalogs have sufficient quality for many analyses involving dynamics and structure of the Earth viewed from Antarctica. The continuously recorded data for a few decades after IGY have been utilized not only to the lithospheric studies but also to the Earth's deep interiors, which has significant contribution to the Federation of Digital Seismological Networks from a high southern latitude. In this presentation, advances in seismic observation networks and data analysis around SYO and surrounding regions in Antarctica are introduced associated with scientific linkages with other regional and global networks.

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