

NEOS Operation Center

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Abstract

This report covers the activities of the NEOS Operation Center at USNO for 2005. The Operation Center schedules IVS-R4 and the Intensive experiments.

1. VLBI Operations

NEOS operations in the period covered consisted, each week, of one 24-hour duration IVS-R4 observing session, on Thursday-Friday, for Earth Orientation, together with five daily one-hour duration “intensives” for UT1 determination, Monday through Friday. The operational IVS-R4 network has included VLBI stations at Gilmore Creek (Alaska), Kokee Park (Hawaii), Wettzell (Germany), Fortaleza (Brazil), Ny-Ålesund (Norway), Algonquin Park (Canada), TIGO (Chile), Svetloe and Zelenchukskaya (Russia), Hobart (Australia), Onsala (Sweden), and Matera and Medicina (Italy). A typical R4 consisted of 7 to 8 stations.

The regular stations for the IVS-Intensives were Kokee Park and Wettzell. During the second half of the year a set of sessions including Kokee Park, Wettzell and Svetloe was observed twice per month in order to characterize the Kokee Park – Svetloe baseline so that Svetloe can be used as an alternate for Wettzell should it be needed.

All sessions are correlated at the Washington Correlator, which is located at USNO and is run by NEOS.

2. Staff

K. A. Kingham and M. S. Carter are the only staff members of the NEOS Operation Center. Kingham is responsible for the overall management and Carter makes the schedules. M. S. Carter is located at the USNO Flagstaff Station (NOFS).