

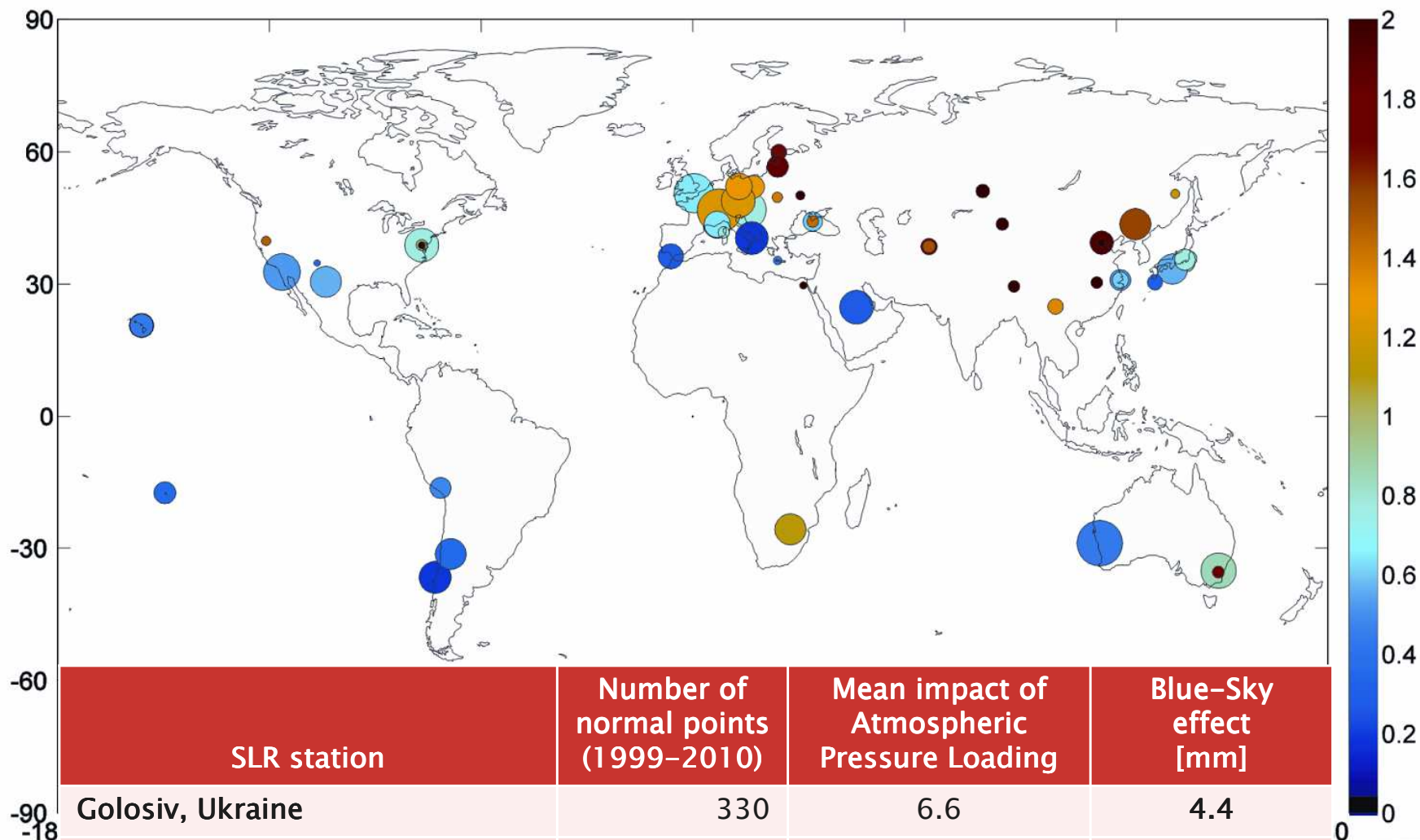
The Blue-Sky effect

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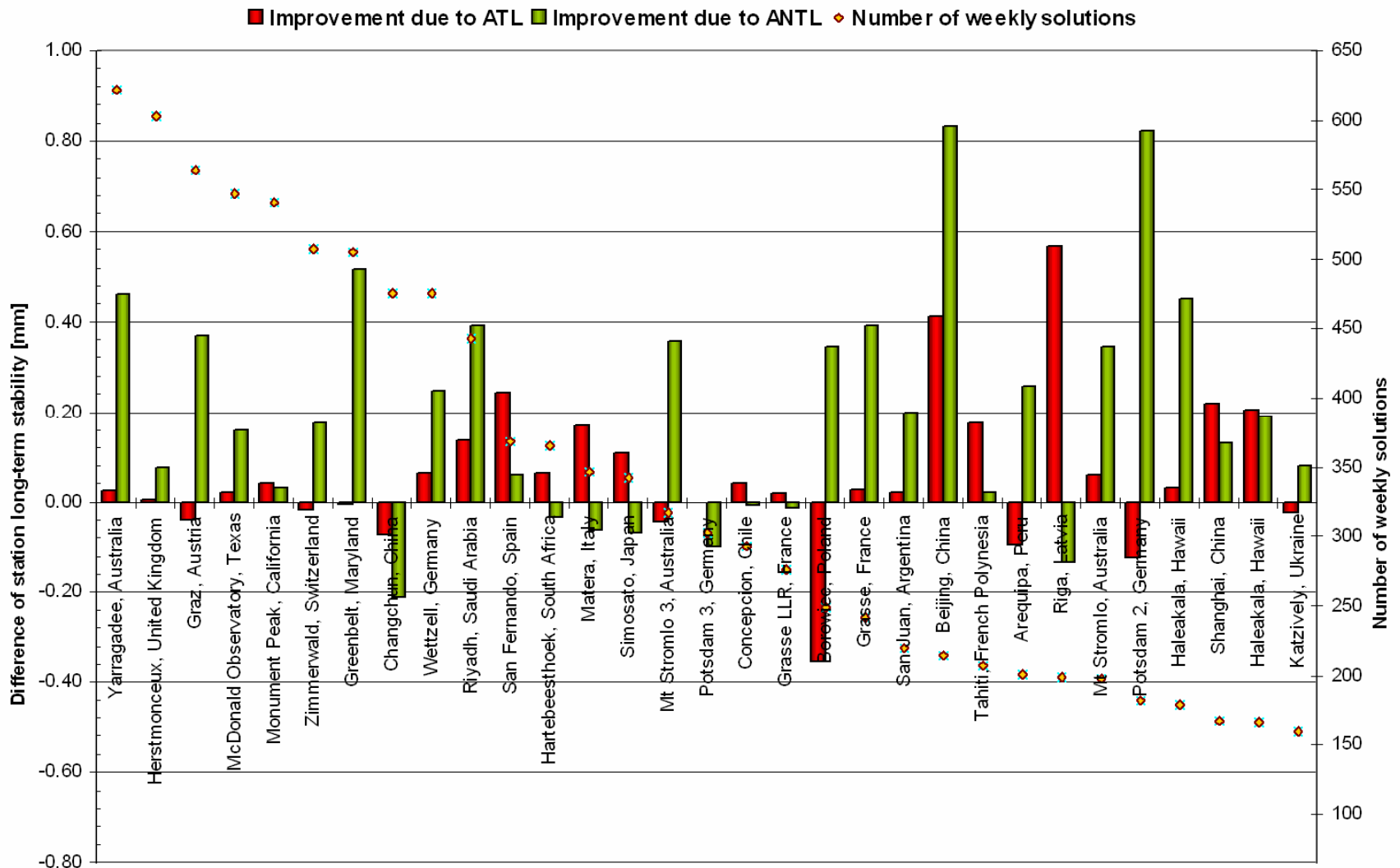
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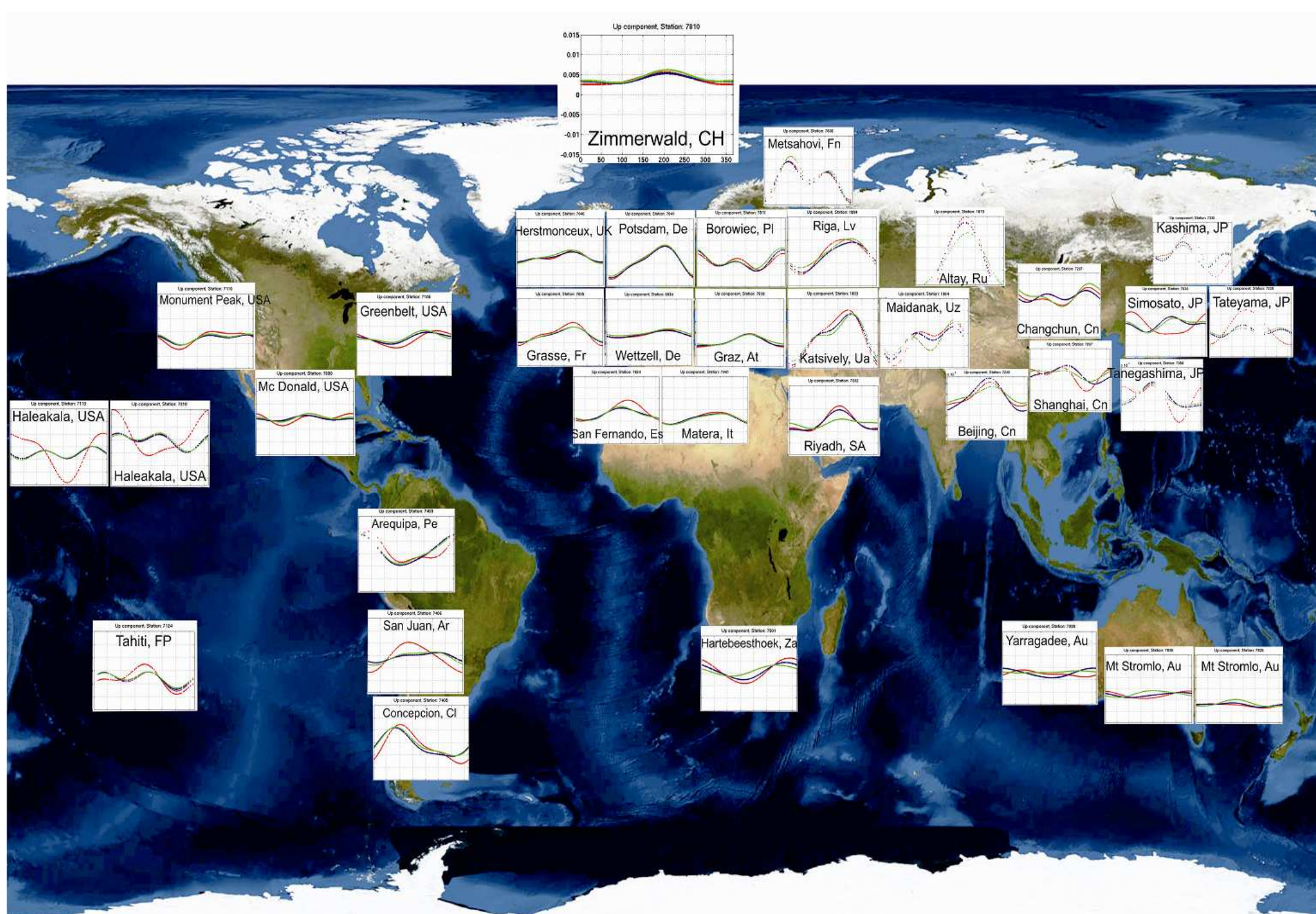


SLR station	Number of normal points (1999-2010)	Mean impact of Atmospheric Pressure Loading	Blue-Sky effect [mm]
Golosiv, Ukraine	330	6.6	4.4
Wuhan, China	1052	4.9	3.2
Beijing-A, China	189	2.7	2.5
Helwan, Egypt	223	3.2	2.4
Altay, Russia	1776	6.7	2.3

The impact of ATL and ANTL on SLR stations

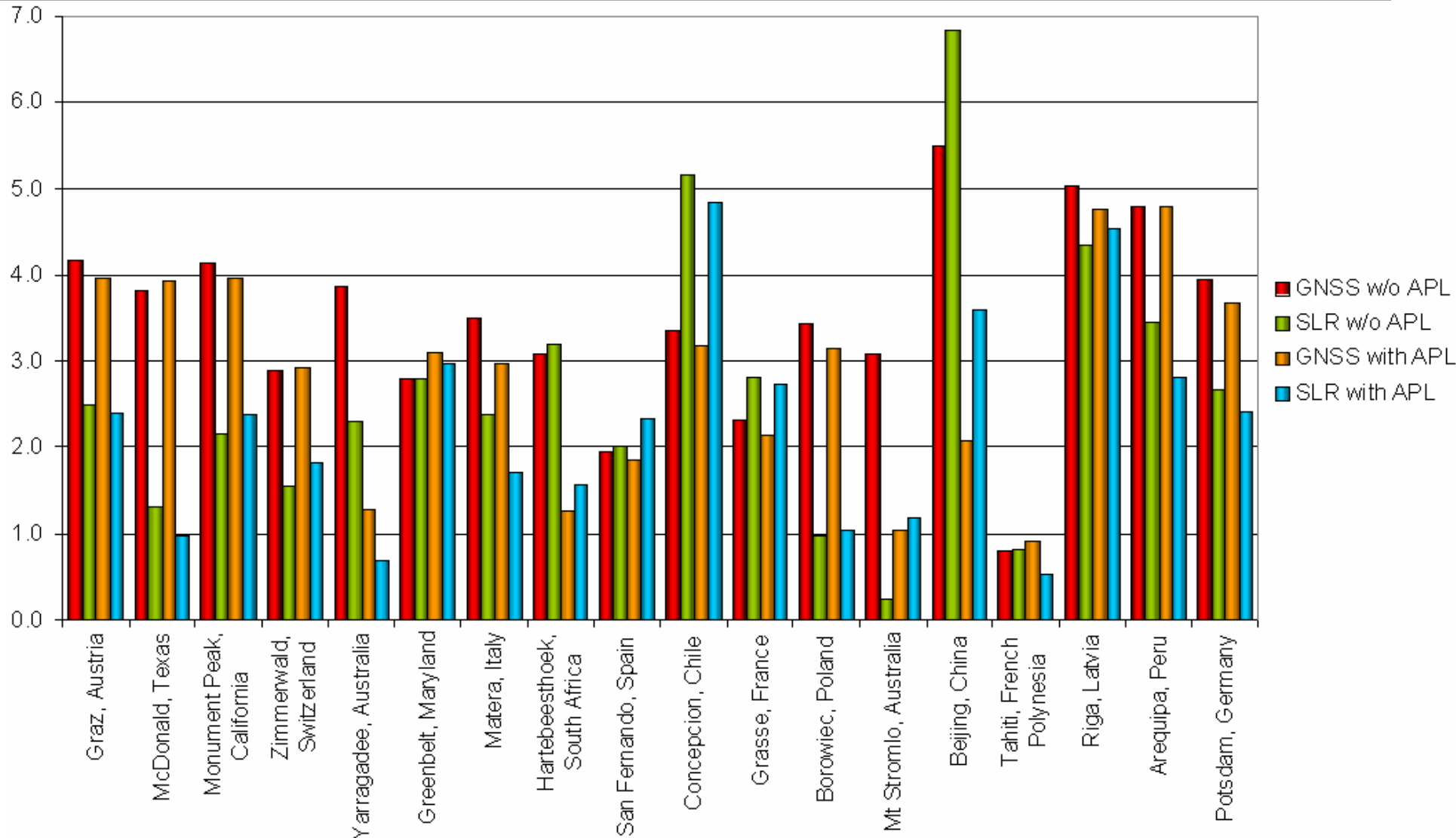
Atmospheric Tidal Loading (S1-S2): mean improvement 0.2%
 Atmospheric Non-Tidal Loading: mean improvement 3.3%





The annual and semiannual signals of height station coordinate components in solution **without loading corrections** (red), with **ocean tidal loading** (blue), with **ocean and atmospheric pressure loading** (green).

Comparison between SLR and GNSS solutions



The amplitudes of annual signal of height components for SLR-GNSS co-located stations. Solutions with and w/o atmospheric loading.