

LAC Analysis Center Report

LPT

(Federal Office of Topography Switzerland)

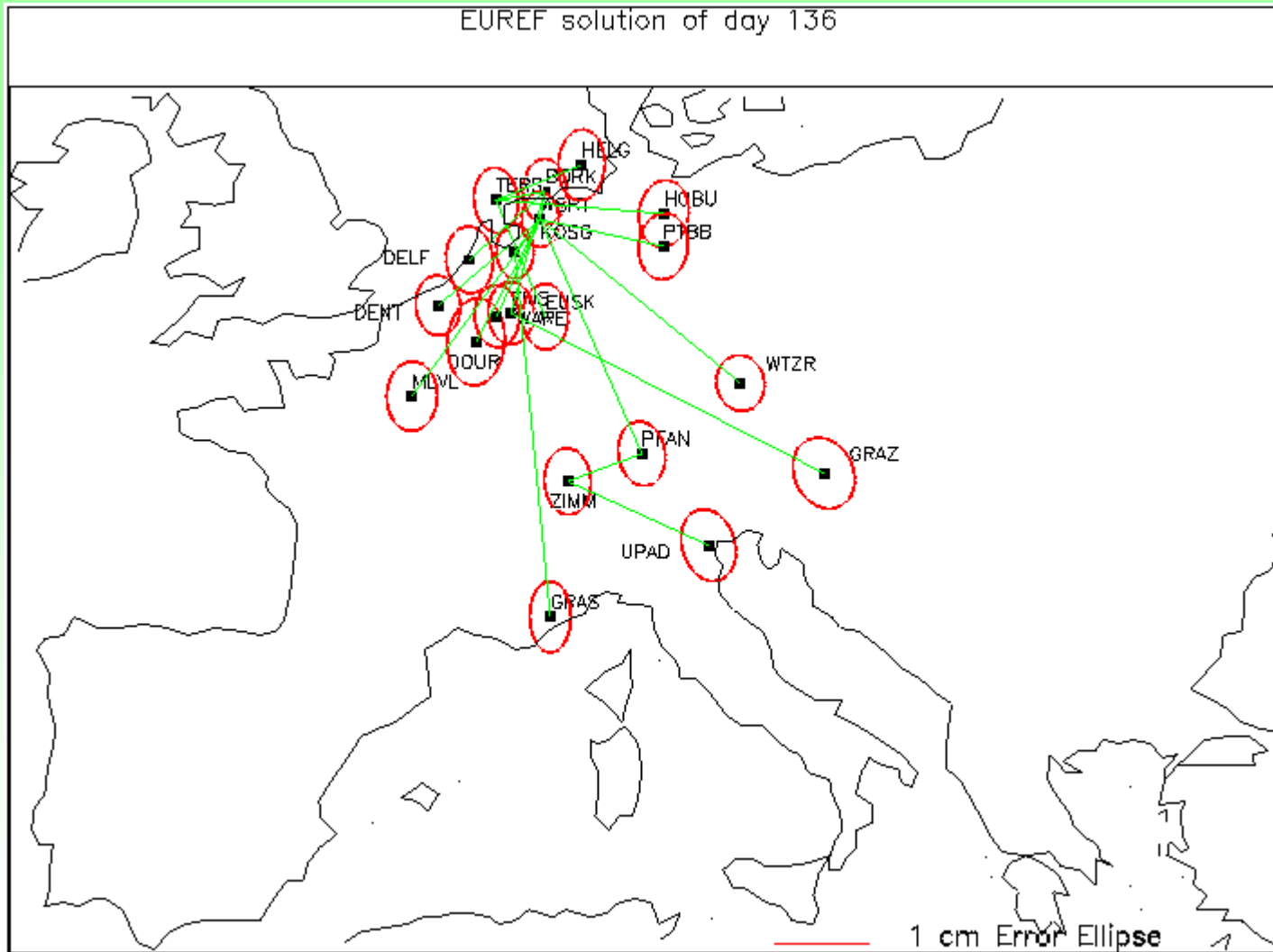
Dr. Elmar Brockmann



Bundesamt für Landestopographie
Office fédéral de topographie
Ufficio federale di topografia
Uffizi federal da topografia

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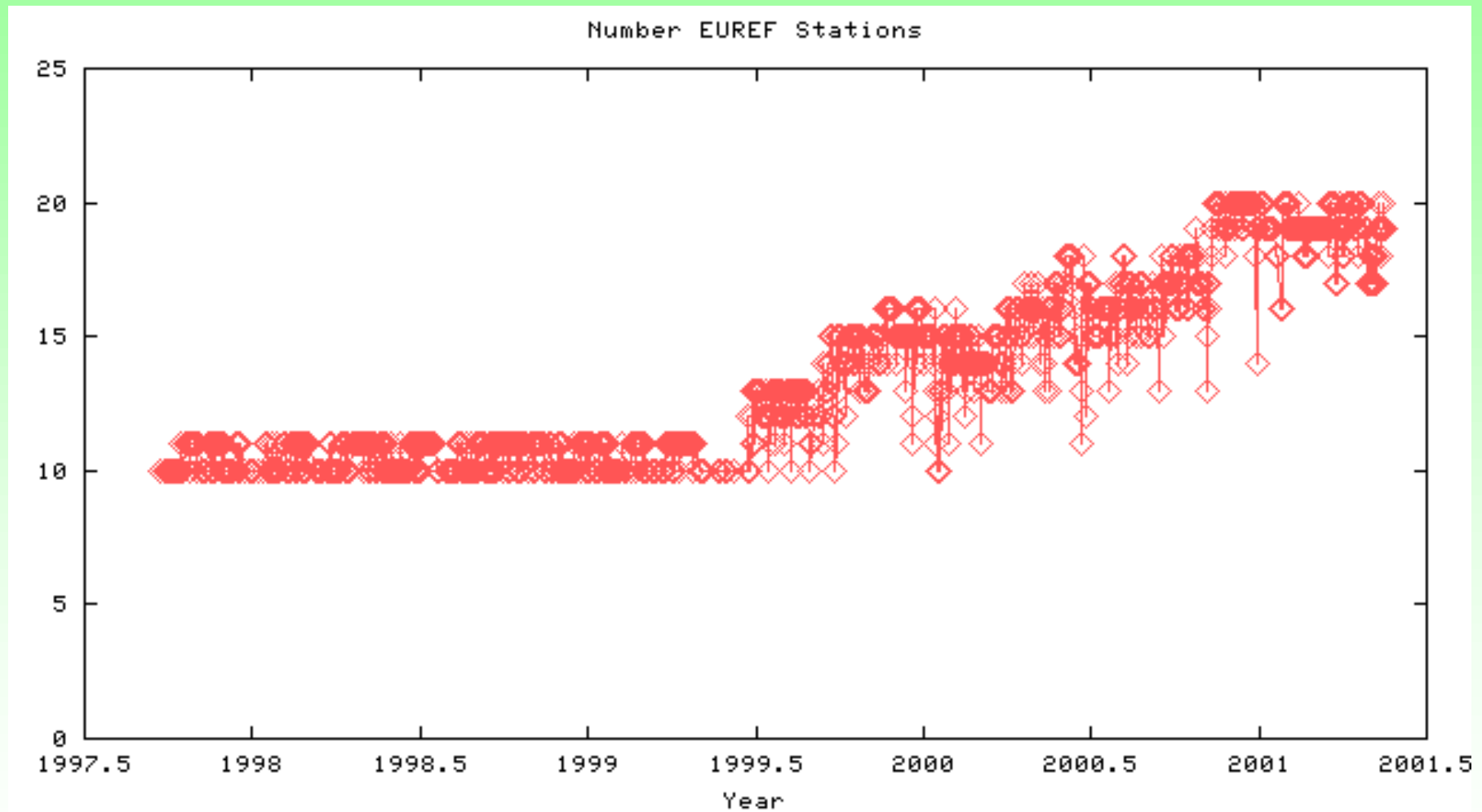
EUREF Subnetwork by LPT



- 19 sites



Stations



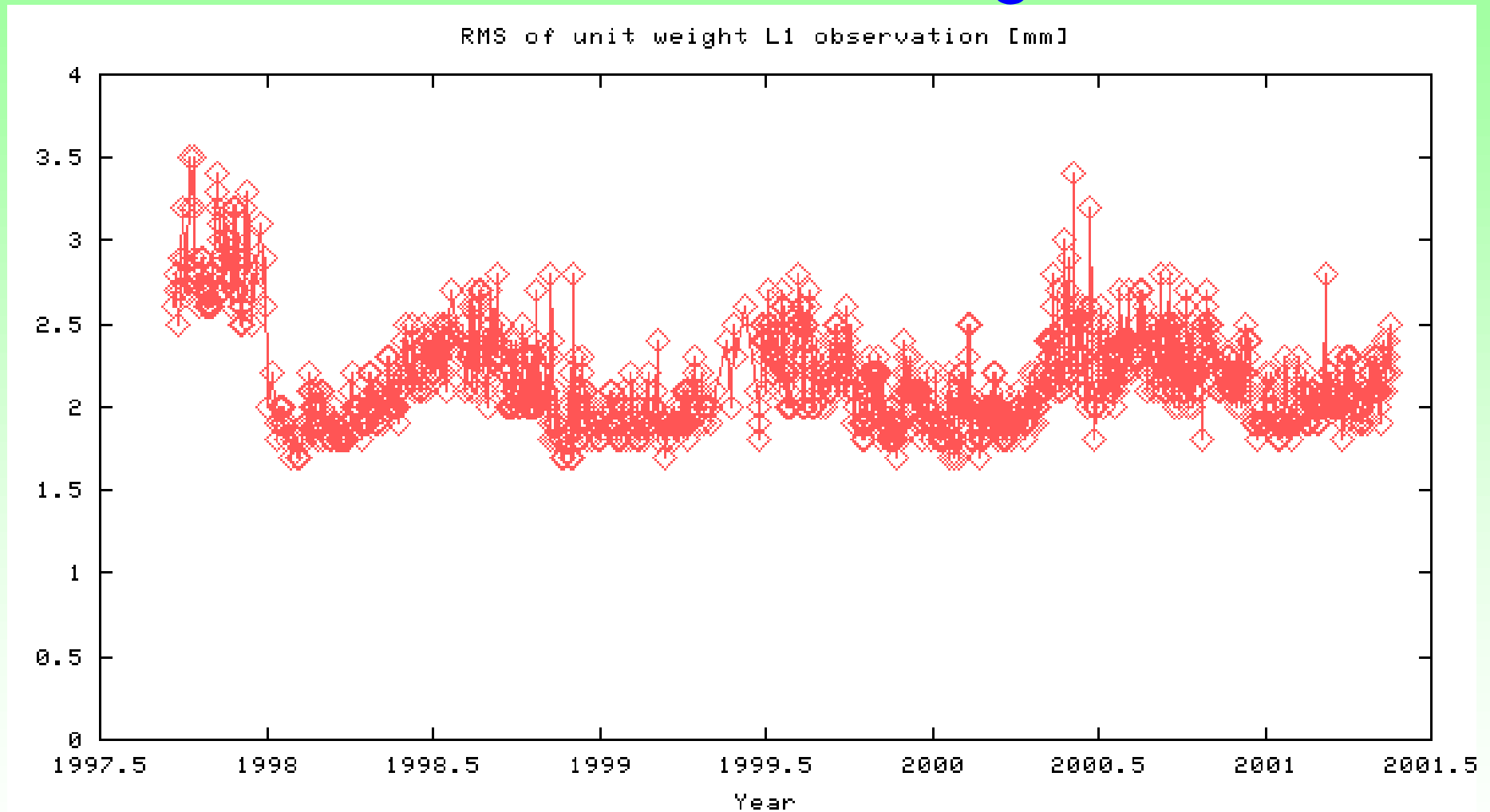
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RMS of Unit Weight



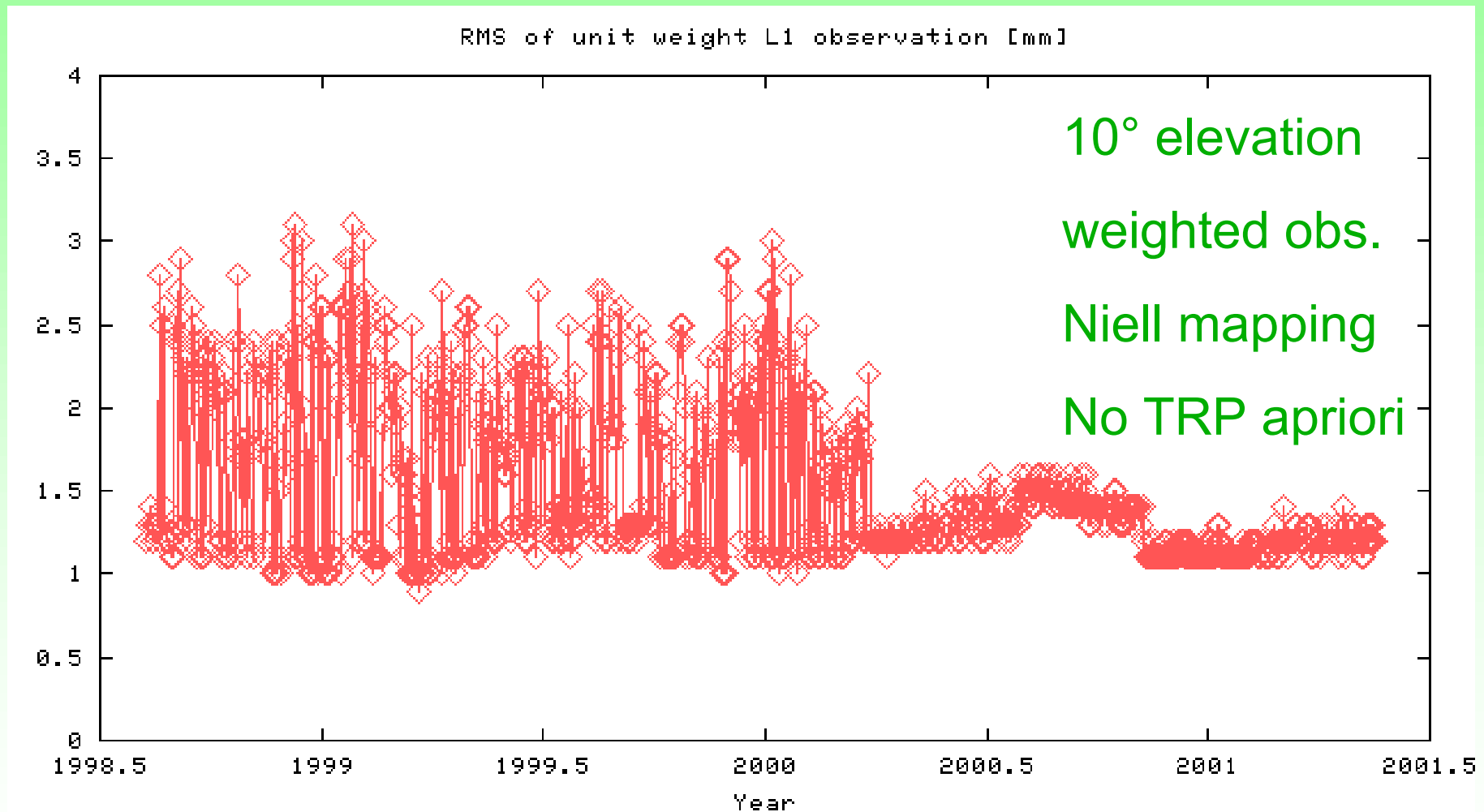
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RMS of Unit Weight (AGNES)



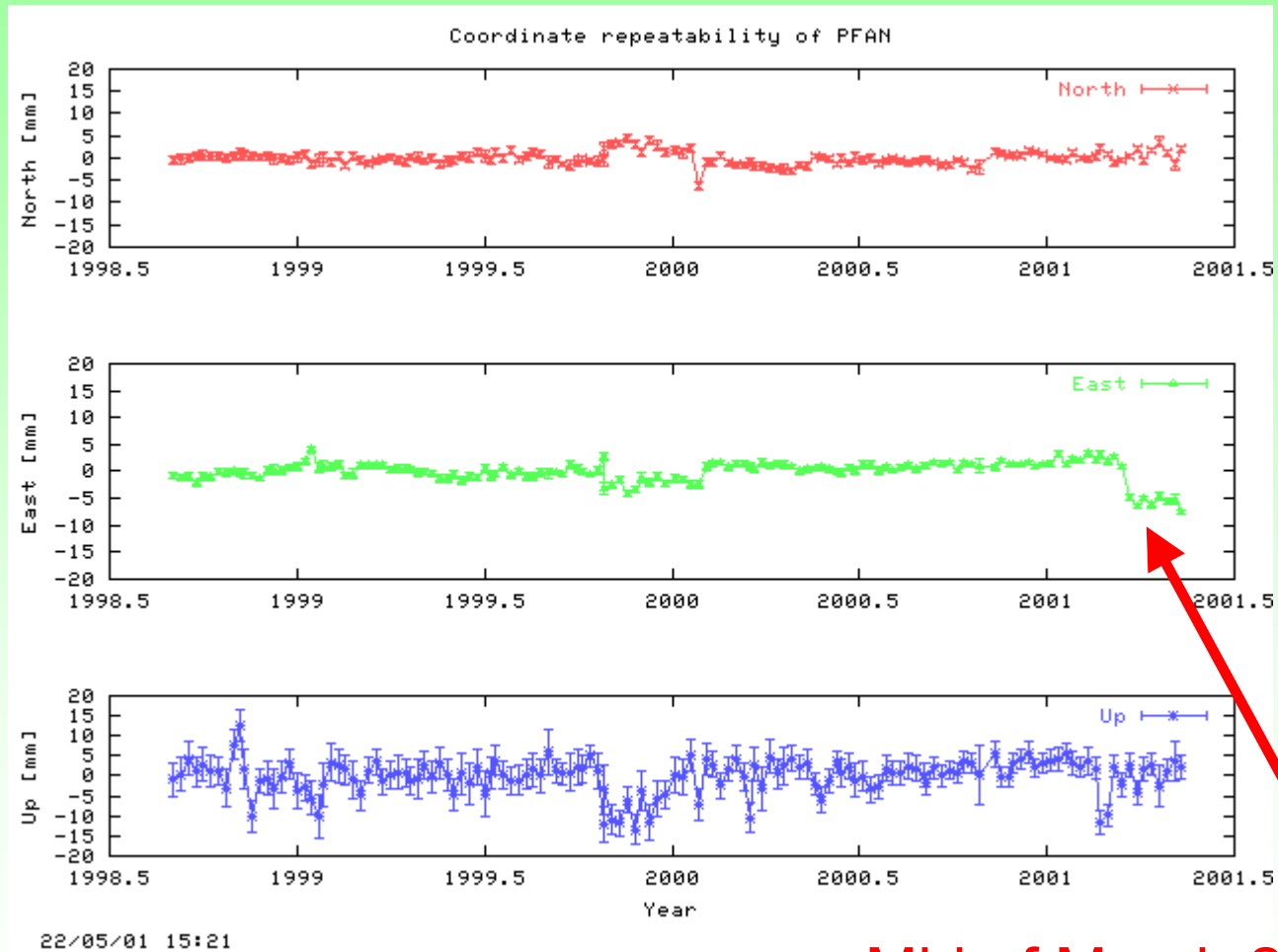
25/05/01 08:17



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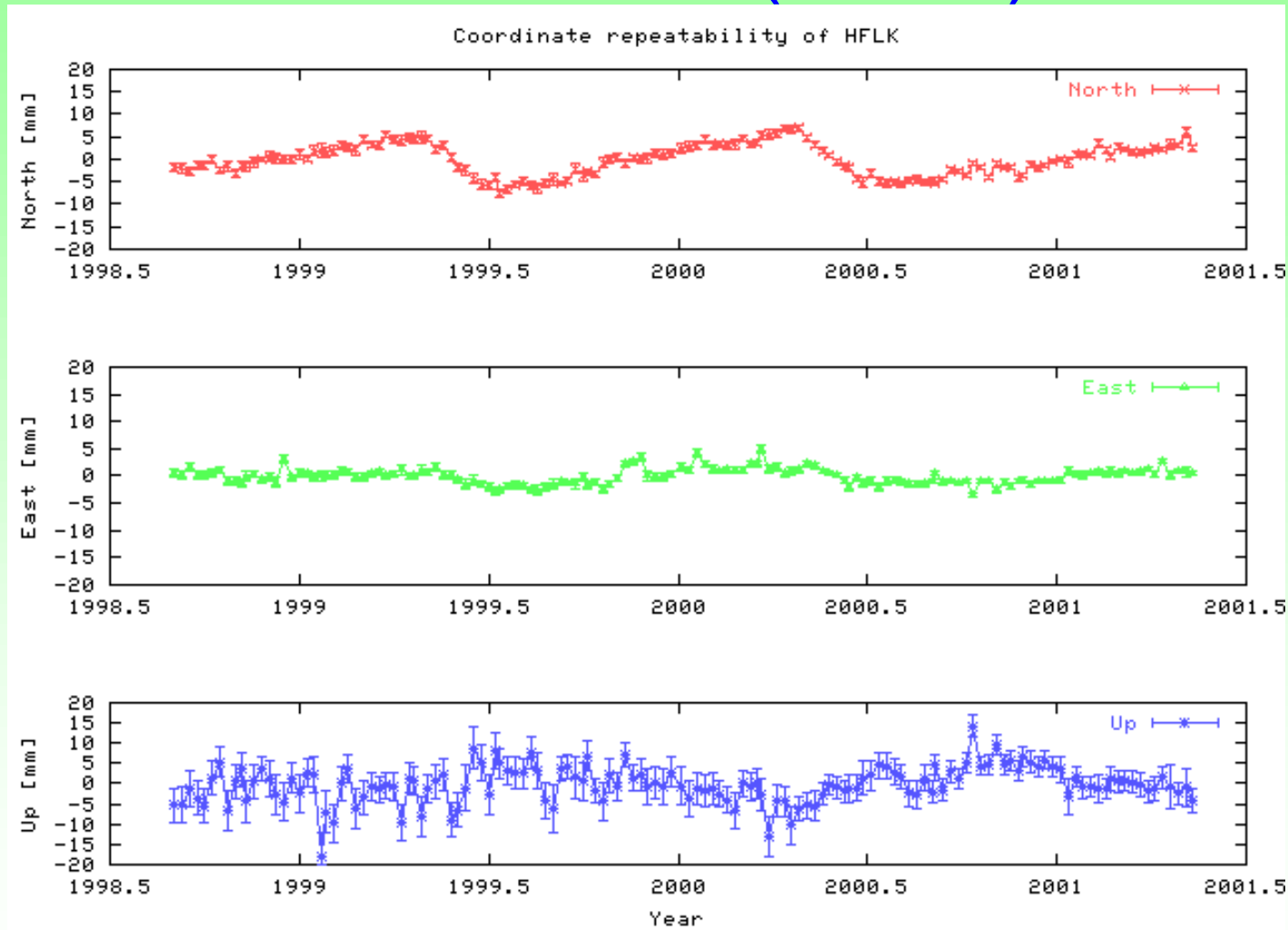
Pfänder (PFAN)



Mid of March 2001 ?



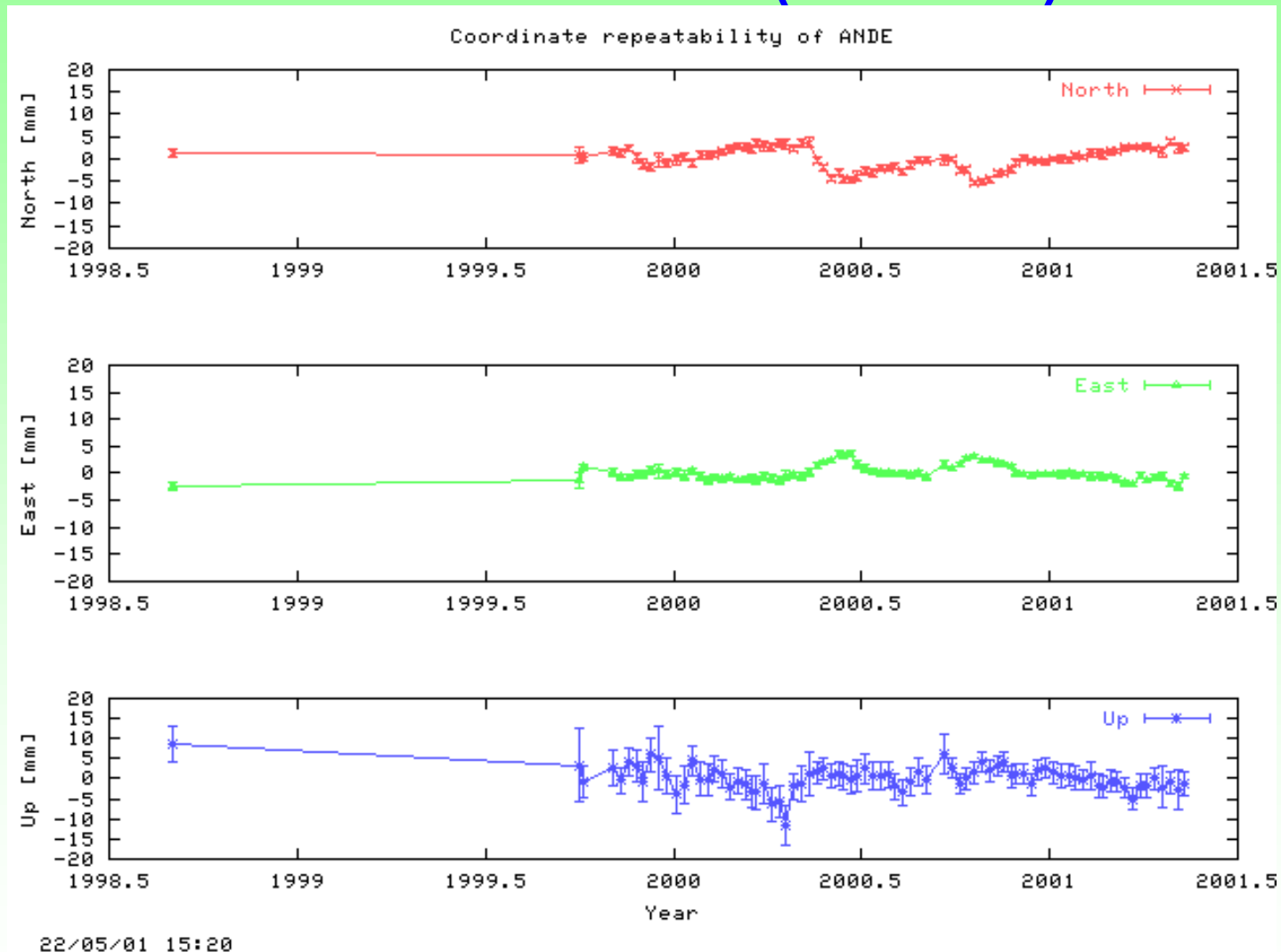
Haflekar (HFLK)



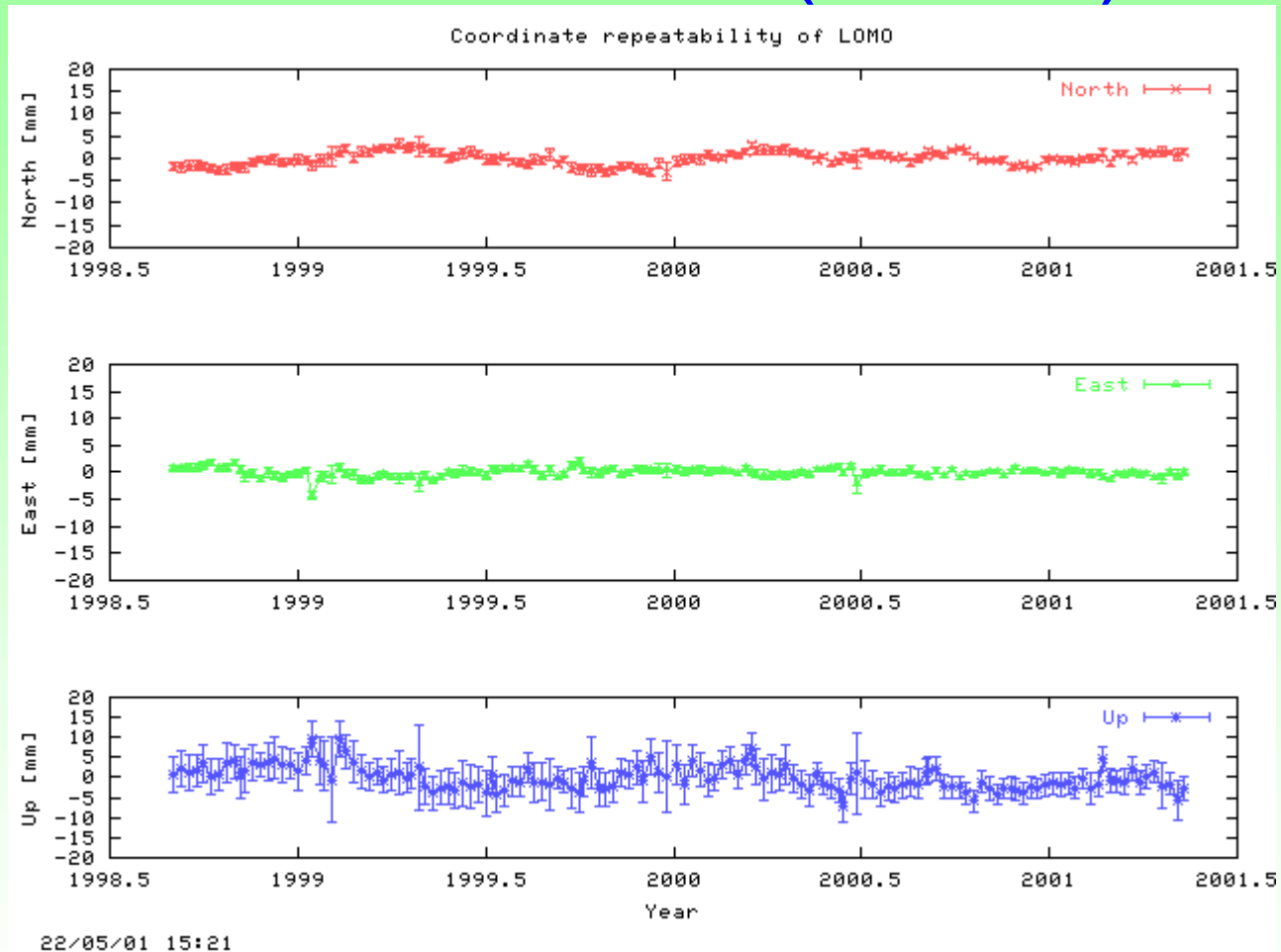
22/05/01 15:21



Andermatt (ANDE)



Locarno Monti (LOMO)



„Future“ Processing Options for EUREF (LPT)?

- Orbits (IGS instead of X3)
- ERPs (IGS instead of X3)
- Ocean Loading
- Orbit Model (DE200, Ocean tides OT_CSRC)
- JGM3 Earth Model (instead GEMT3)
- SINEX .TRO files properly
- (10 ° elevation, weighted observations, Niell mapping, no apriori TRP model)



SINEX .TRO Files

- Presently „Quick and Dirty“: Fixing on daily coordinates
- Hourly TRPs ?
- Goal: compatible with weekly SINEX
 - save daily NEQs including TRP parameters
 - weekly solution at end of week
 - re-create .TRO files with fixing on SINEX coordinates
 - question: Datum definition (how to constrain the coordinates)



General Problems

- ITRF2000
 - change in EUREF / IGS
 - SBGZ (10 cm Station height)
 - general handling of uncertainties of the velocities

