

ENGINEERING DATA FILE PROCESSING AND DISTRIBUTION

K.Salminsh

Institute of Astronomy

University of Latvia

14th International Laser Ranging Workshop
San Fernando June 6-11, 2004

EDF goals

- _ Inter-comparison between parameters of different SLR stations
- _ Rapid identification of system drifts or degradation effects
- _ Correlation of system data with bias reports based on orbit analysis
- _ Continuous system history over a wide variety of parameters
- _ Easy implementation
- _ Flexibility

EDF implementation steps

- _ Define EDF schema
 - Done
- _ Stations implement EDF creation
 - Under process
- _ Define common tasks
 - Under process
- _ Design software
 - Under process
- _ Data centre for the EDF

EDF Status

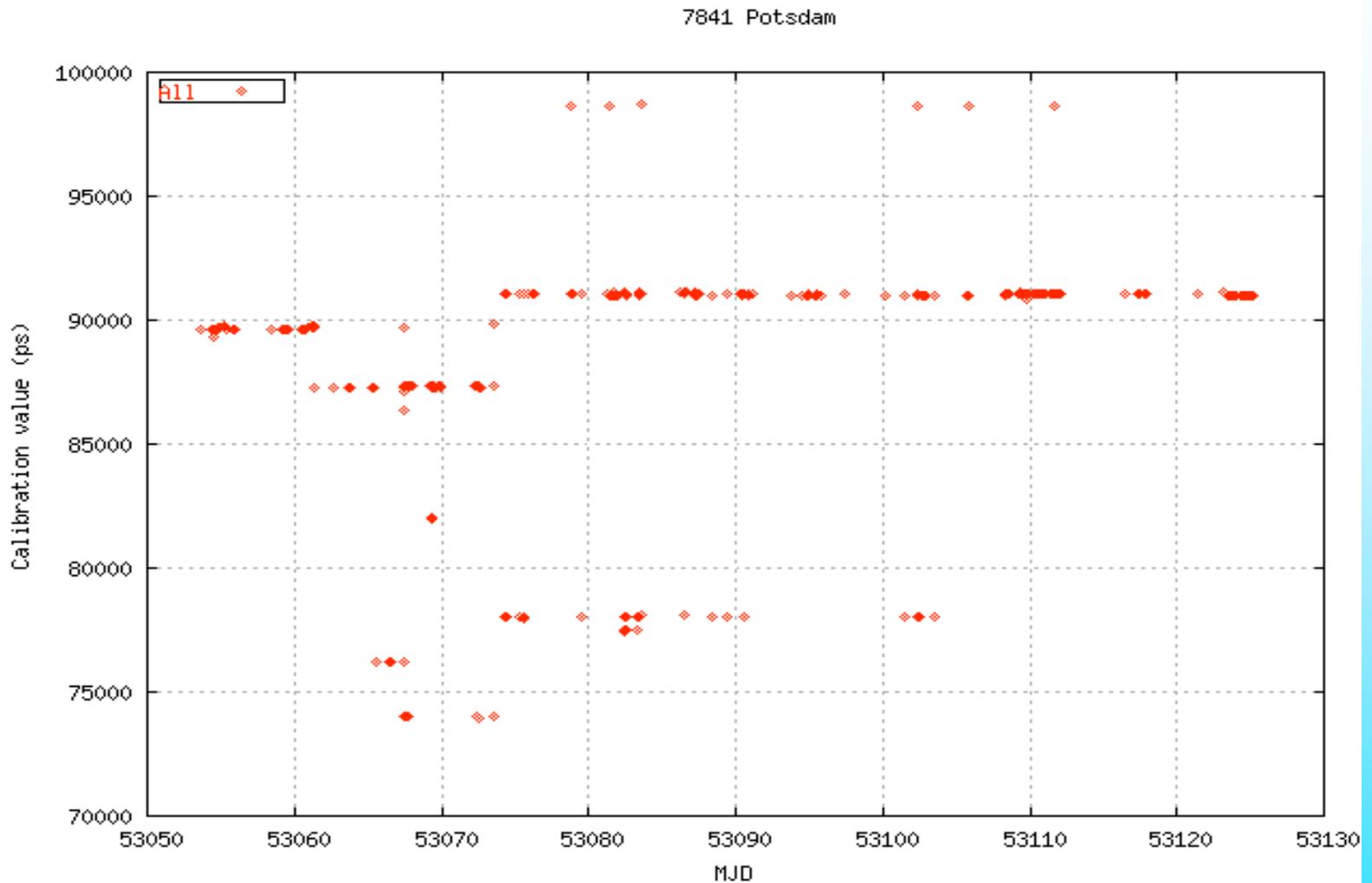
- _ Support website <http://www.astr.lu.lv/edf>
- _ EDF XML format definition version 1.0
- _ Existing implementations
 - _ Potsdam
 - _ Graz (upcoming)
 - _ Wetzell (upcoming)
 - _ Others
- _ Data collection

EDF Implementation Notes

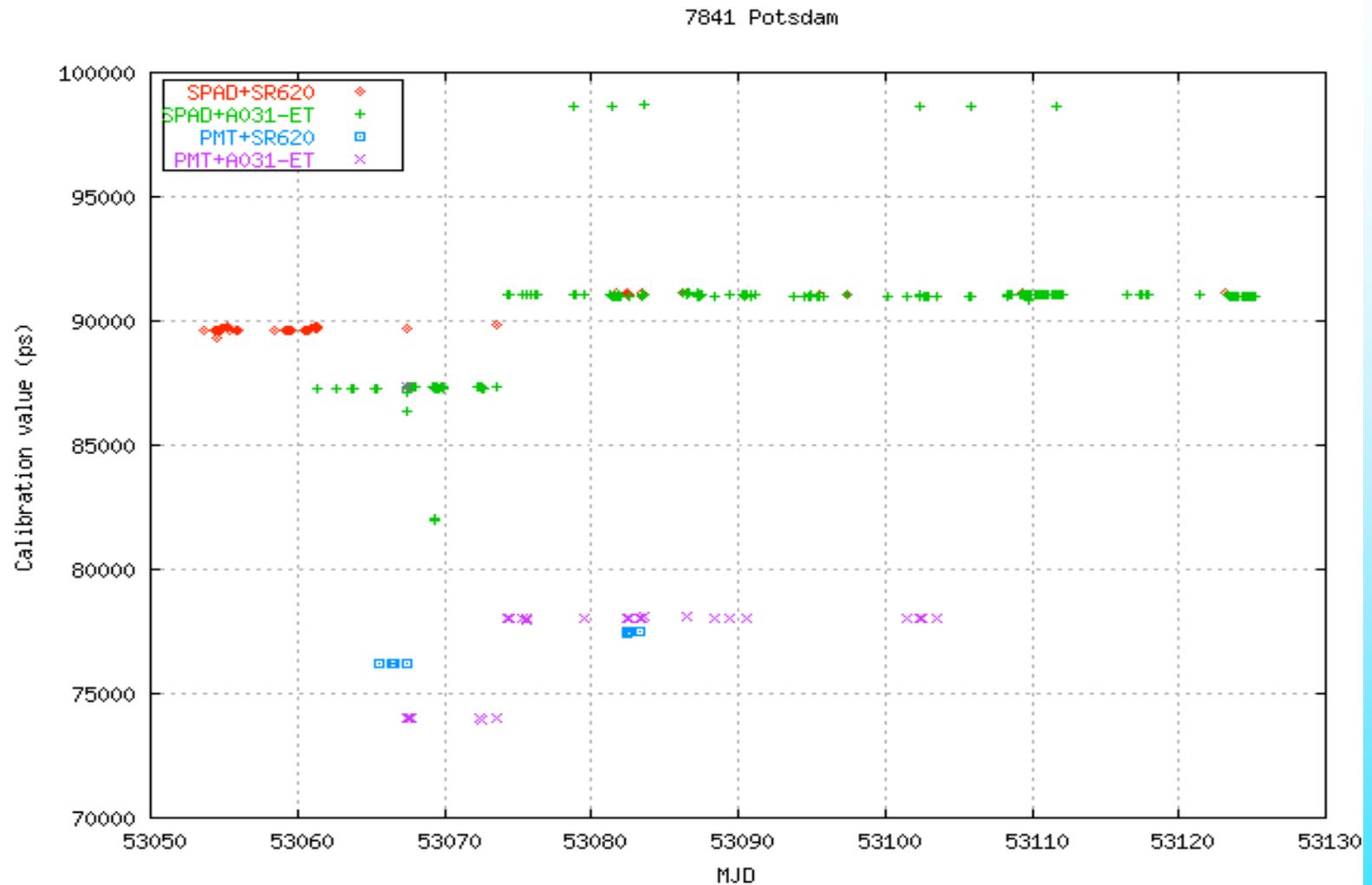
- _ What is necessary to create EDF
- _ Some problems to expect
- _ Process automation

EDF Processing

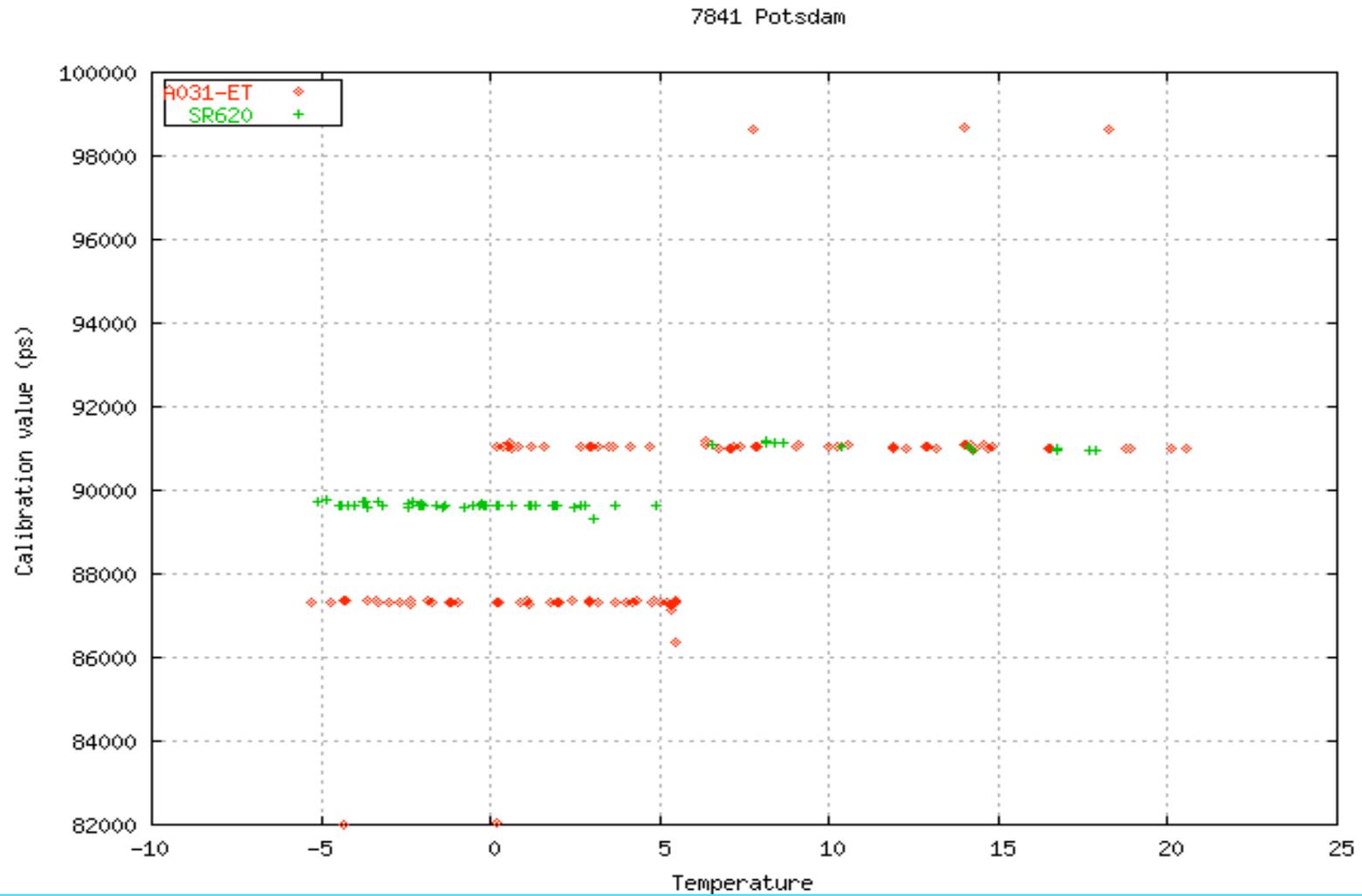
- _ EDF usage in the SLR station (client side processing)
- _ EDF processing at the center (server side processing)



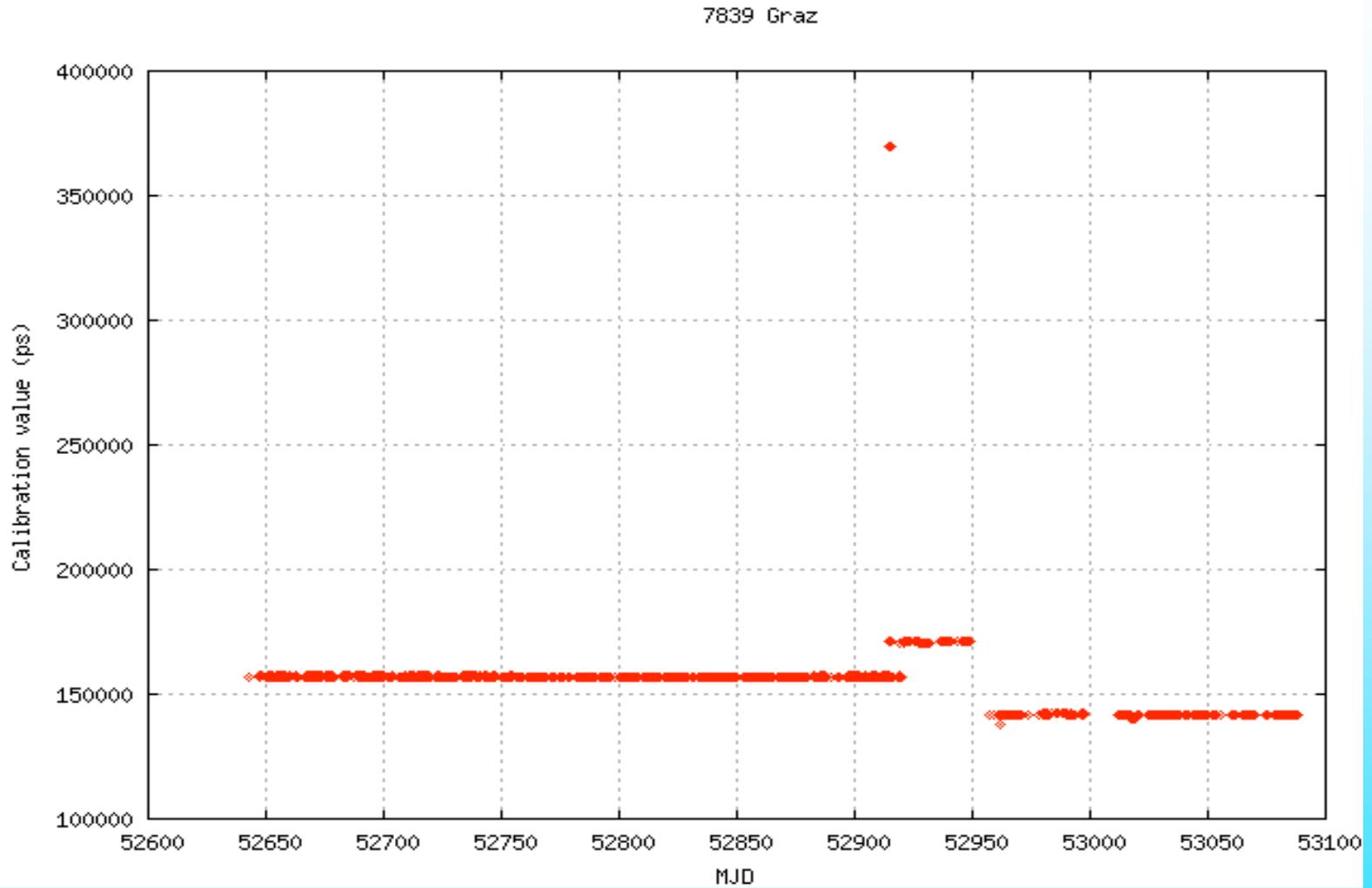
1. All calibration data extracted from the EDF



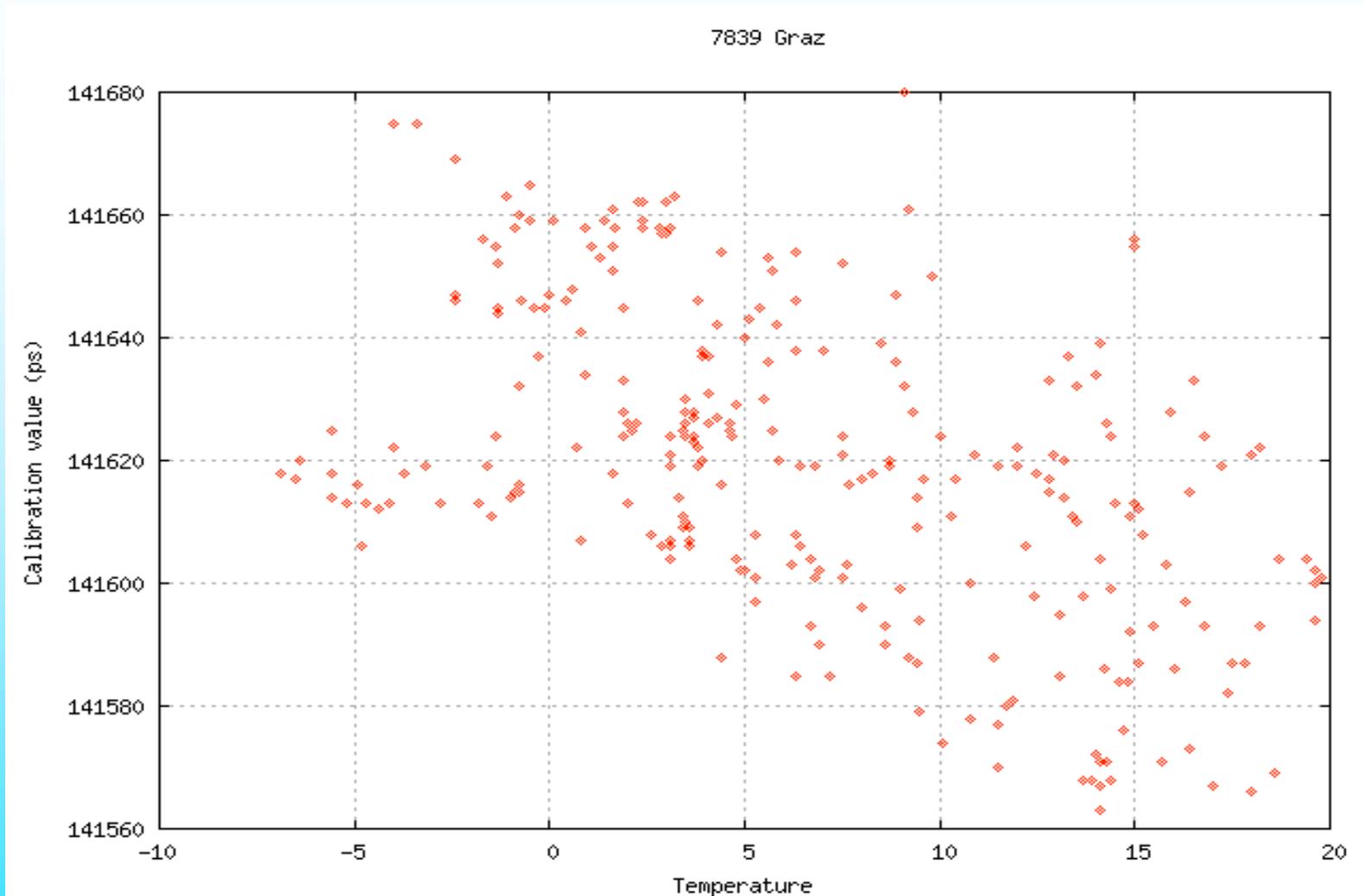
2. Hardware configurations identified



4. Temperature dependency, 01.03.2004-26.03.2004

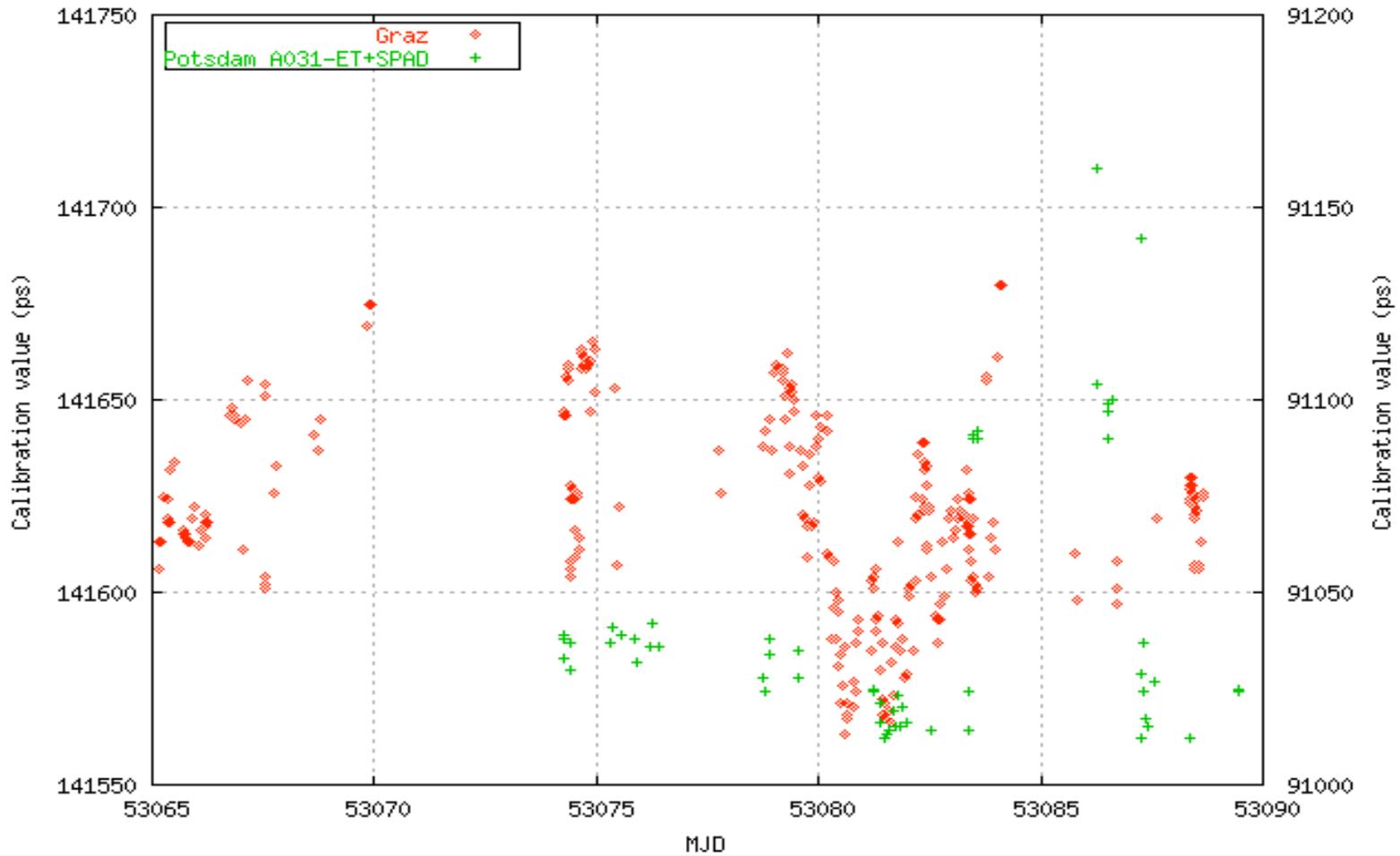


1. All calibration data from EDF



3. Temperature dependency, 01.03.2004-26.03.2004

7839 Graz + 7841 Potsdam



Combined data, 01.03.2004-26.03.2004

Conclusions

To fully utilize the EDF potential it's necessary to set up the data collection facility for the EDF and to design an application, available and usable through the WWW.