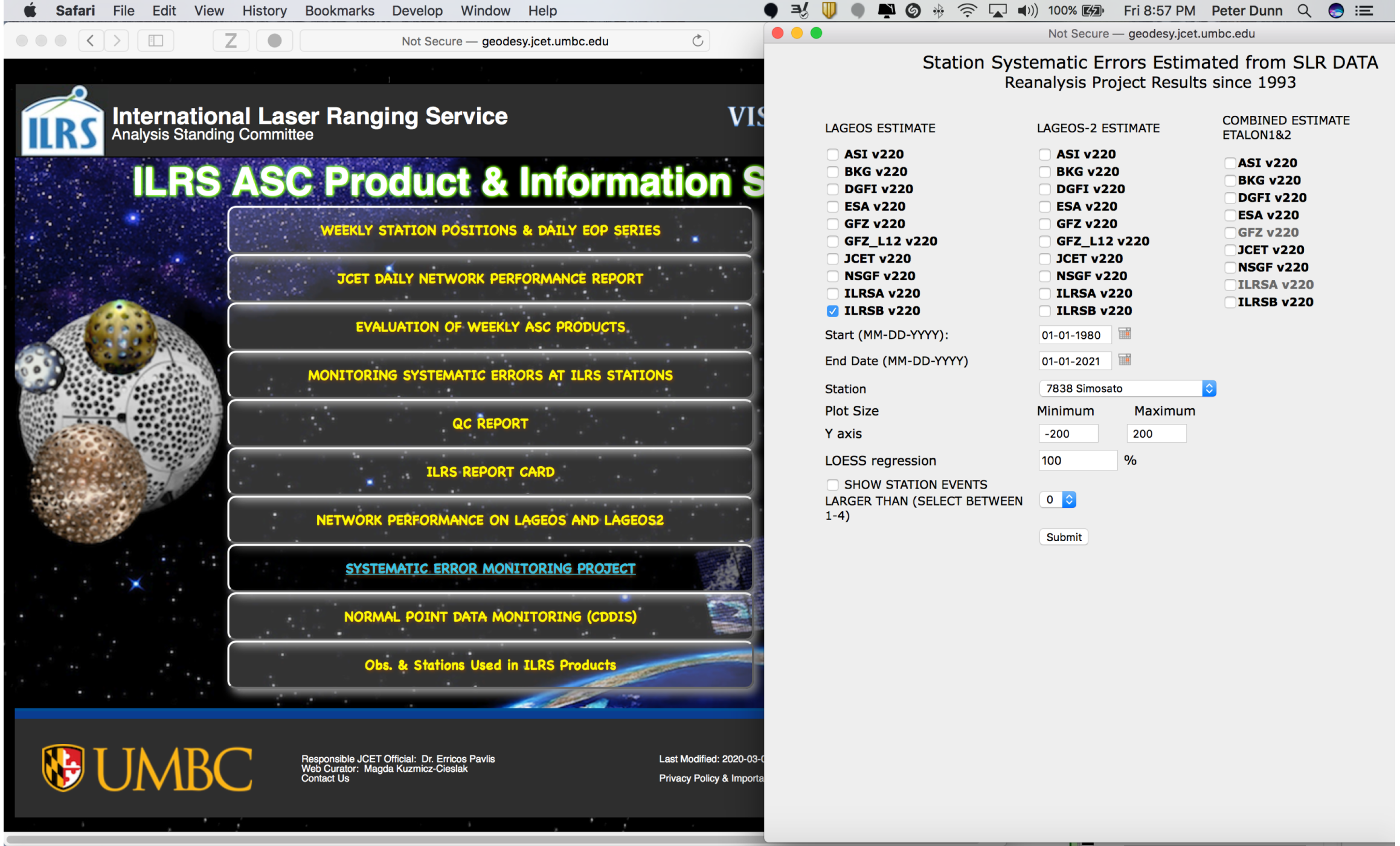
ACTION Van/Peter: Examine Simosato Site log to see if there are items that should have been included in their History Logs;

- SSEM shows Simosato range bias(RB) variation, since 1993
- This changes the past ITRF height variation, observed since 1984
- The site log can identify some of the causes of the RB changes
- The current history log entries start in 2018


Safari File Edit View History Bookmarks Develop Window Help
100% Fri 8:57 PM Peter Dunn
Not Secure — geodesy.jcet.umbc.edu
International Laser Ranging Service
Analysis Standing Committee
ILRS ASC Product & Information S
WEEKLY STATION POSITIONS & DAILY EOP SERIES
JCET DAILY NETWORK PERFORMANCE REPORT
EVALUATION OF WEEKLY ASC PRODUCTS
MONITORING SYSTEMATIC ERRORS AT ILRS STATIONS
QC REPORT
ILRS REPORT CARD
NETWORK PERFORMANCE ON LAGEOS AND LAGEOS2
SYSTEMATIC ERROR MONITORING PROJECT
NORMAL POINT DATA MONITORING (CDDIS)
Obs. & Stations Used in ILRS Products
UMBC
Responsible JCET Official: Dr. Erricos Pavlis
Web Curator: Magda Kuzmicz-Cieslak
Contact Us
Last Modified: 2020-03-
Privacy Policy & Importa
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Station Systematic Errors Estimated from SLR DATA
Reanalysis Project Results since 1993
LAGEOS ESTIMATE
ASI v220
BKG v220
DGFI v220
ESA v220
GFZ v220
GFZ_L12 v220
JCET v220
NSGF v220
ILRSA v220
ILRSB v220
LAGEOS-2 ESTIMATE
ASI v220
BKG v220
DGFI v220
ESA v220
GFZ v220
GFZ_L12 v220
JCET v220
NSGF v220
ILRSA v220
ILRSB v220
COMBINED ESTIMATE ETALON1&2
ASI v220
BKG v220
DGFI v220
ESA v220
GFZ v220
JCET v220
NSGF v220
ILRSA v220
ILRSB v220
Start (MM-DD-YYYY): 01-01-1980
End Date (MM-DD-YYYY) 01-01-2021
Station 7838 Simosato
Plot Size Minimum Maximum
Y axis -200 200
LOESS regression 100 %
SHOW STATION EVENTS LARGER THAN (SELECT BETWEEN 1-4) 0
Submit

Active Stations
Engineering Stations
Closed/Inactive Stations
Future Stations

Site Information
Site Procedures
System Performance
Networks and Engineering Standing Committee
Quality Control Board

Quick Links

- Network Map
- List of Stations
- Monthly Report Card
- Quarterly Report Card
- Network Status Page
- Potsdam CPF time bias service
- Procedure for estimating laser beam divergence
- Recent Station Upgrades
- Network station application form
- Revised ILRS station screening process at ILRS Operations Centers (NASA and EDC)
- Satellite Priorities

Simosato: Site Log

Instructions and Update Site Log

You can use the hyperlinks to quickly get to the section of interest or you can scroll down to read them all.


```
     ILRS Site and System Information Form
     International Laser Ranging Service

0.   Form

     Prepared by (Full Name)    : Shun-ichi Watanabe
     Preparer E-mail            : eisei@jodc.go.jp
     Date Prepared              : 2019-09-19
     Report Type                : UPDATE
     Site Log Format Version    : 2.0
     Site Log Revision          :
```

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```
1.   Identification of the Ranging System Reference Point (SRP)

     Site Name                  : Simosato
     IERS DOMES Number          : 21726S001
     CDP Pad ID                 : 7838
     Subnetwork                 : WPLTN
     Description                : AZ EL INTERSECT
     Monument Description       : N.A.
     Monument Inscription       : N.A.
     Mark Description           : N.A.
     Date Installed             : 1982-01-31
     Date Removed               :
     Geologic Characteristic    : BEDROCK
     Additional Information     :
```

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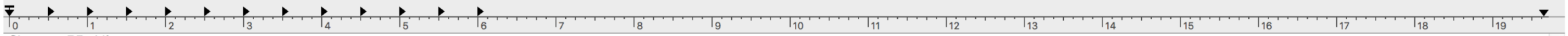
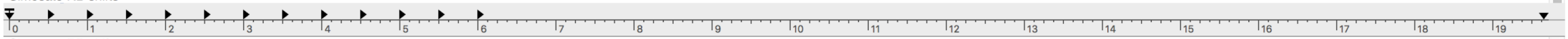
```
2.   Site Location Information

     City or Town               : Nachi Katsuura-cho
     State or Province          : Wakayama
     Country                    : Japan
```

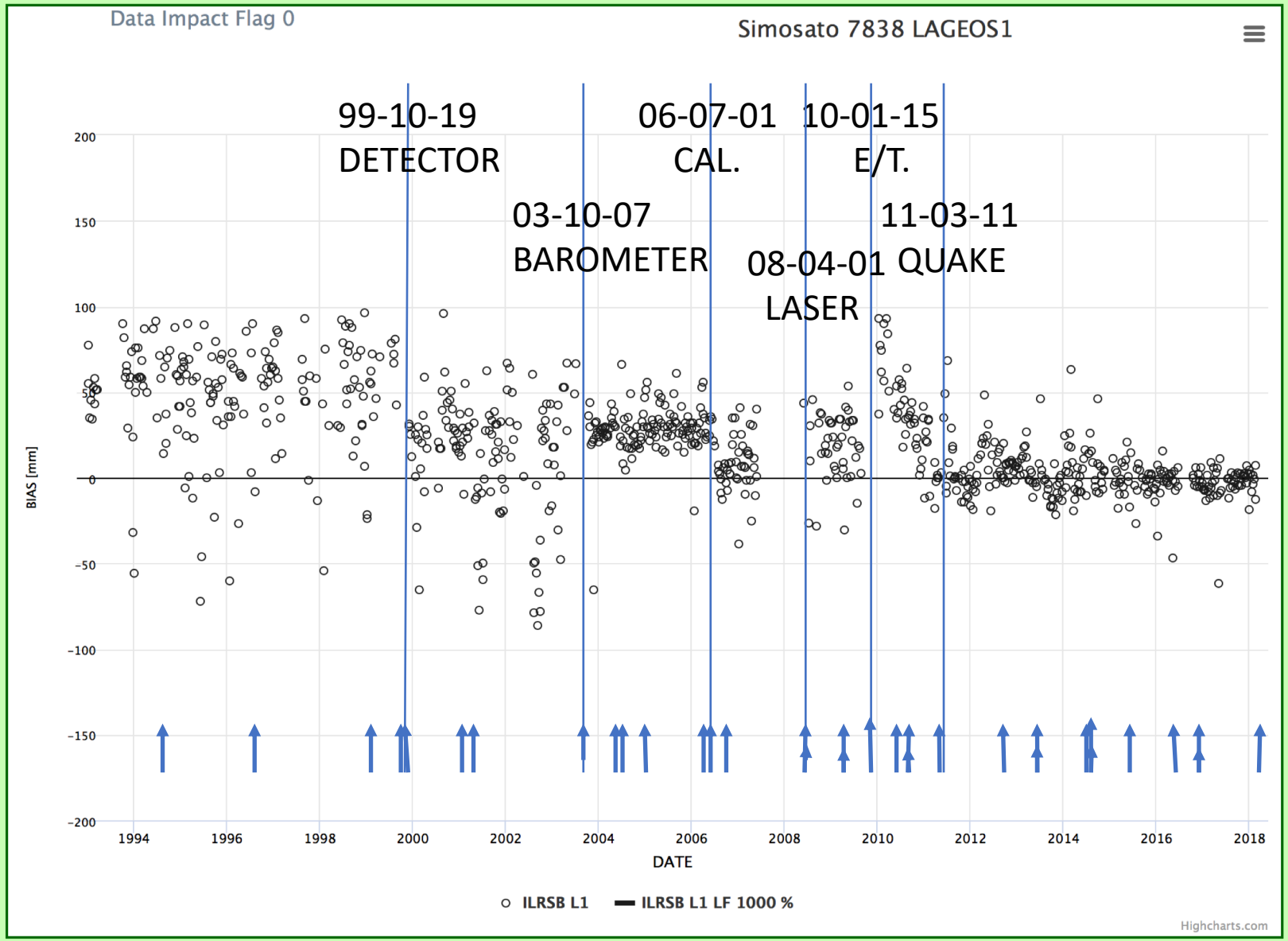


Simosato RB shifts



Simosato RB shifts

80-09-15
82-03-01
82-03-31
90-07-01
95-08-01
95-08-10
95-08-15
96-04-DD
99-07-DD
99-10-07
99-10-19
99-12-04
01-06-DD
02-06-DD
03-10-18
04-06-30
04-07-01
04-09-05
04-12-31
06-06-26
06-07-01
06-07-29
06-09-20
08-03-31
08-04-01
08-05-31
09-08-1
09-08-18
09-11-26
10-01-09
10-01-15
10-06-01
10-08-31
10-09-01
11-03-11
11-04-23
12-08-01
13-03-31
13-04-01
14-03-DD
14-04-DD
14-05-DD
14-06-DD
15-06-04
16-02-13
16-12-08
16-12-09
18-03-10



HOME

New Plot

Print PDF

ILRSB LAGEOS1 Mean/Std. Dev.:20.48±29.55 Count:860

SUMMARY

- SSEM shows Simosato with eras of lower and lower range biases (RBs)
- This caused the past ITRF large height uplift estimates
- The eras are easily defined; cm RB shifts (> 5mm)
- The site log can identify some of the causes of the RB changes
- Eras can contain drifting RBs
- There are eras which are bias-free

Station Location	CDP #	Time Gap(s)*	Last entry
Kiev	1824	000120-080302	141410
Komsomolsk	1868	NO DATA	
Simeiz	1873	NO DATA	
Mendeleevo	1874	NO DATA	
Altay	1879	NO DATA	
Riga	1884		201101
Arkhyz	1886	NO DATA	
Baikonur	1887	NO DATA	
Svetloe	1888	NO DATA	
Zelenchukskaya	1889	NO DATA	
Badary	1890	NO DATA	
Irkutsk	1891	NO DATA	
Katzively	1893	NO DATA	
Yarragadee	7090		201222
Greenbelt	7105		201014
Monument_Peak	7110		210208
Haleakala	7119		201107
Tahiti	7124	020825-080414 130321-191022	210122
Changchun	7237		210106
Beijing	7249		981116
Tanegashima	7358	NO DATA	
Sejong	7394	NO DATA	
Wuhan	7396	NO DATA	
Arequipa	7403		151212
San Juan, Argentina	7406	NO DATA	
Brasilia	7407	NO DATA	
Hartebeesthoek_HARL	7501	020409-081105	201127
Hartebeesthoek_HRTL	7503	NO DATA	
Zimmerwald_532	7810		200730
Borowiec	7811	030329-071227 080205-131218	201202
Kunming	7819	NO DATA	
Shanghai_2	7821		190811
San_Fernando	7824		180801
Mount_Stromlo_2	7825		180921
Wettzell_SOSW	7827		200424
Simosato	7838	080401-181212	200622
Graz	7839	150504-190311	210319
Herstmonceux	7840		200925
Potsdam_3	7841	040906-081026	201202
Grasse_MEO	7845	010601-200818	210112
Matera_MLRO	7941		171204
Wettzell	8834	001012-090324 090324-131021	210115

*** Assuming at least 3 year data gap**