

Automation – Progress at Mount Stromlo SLR Station



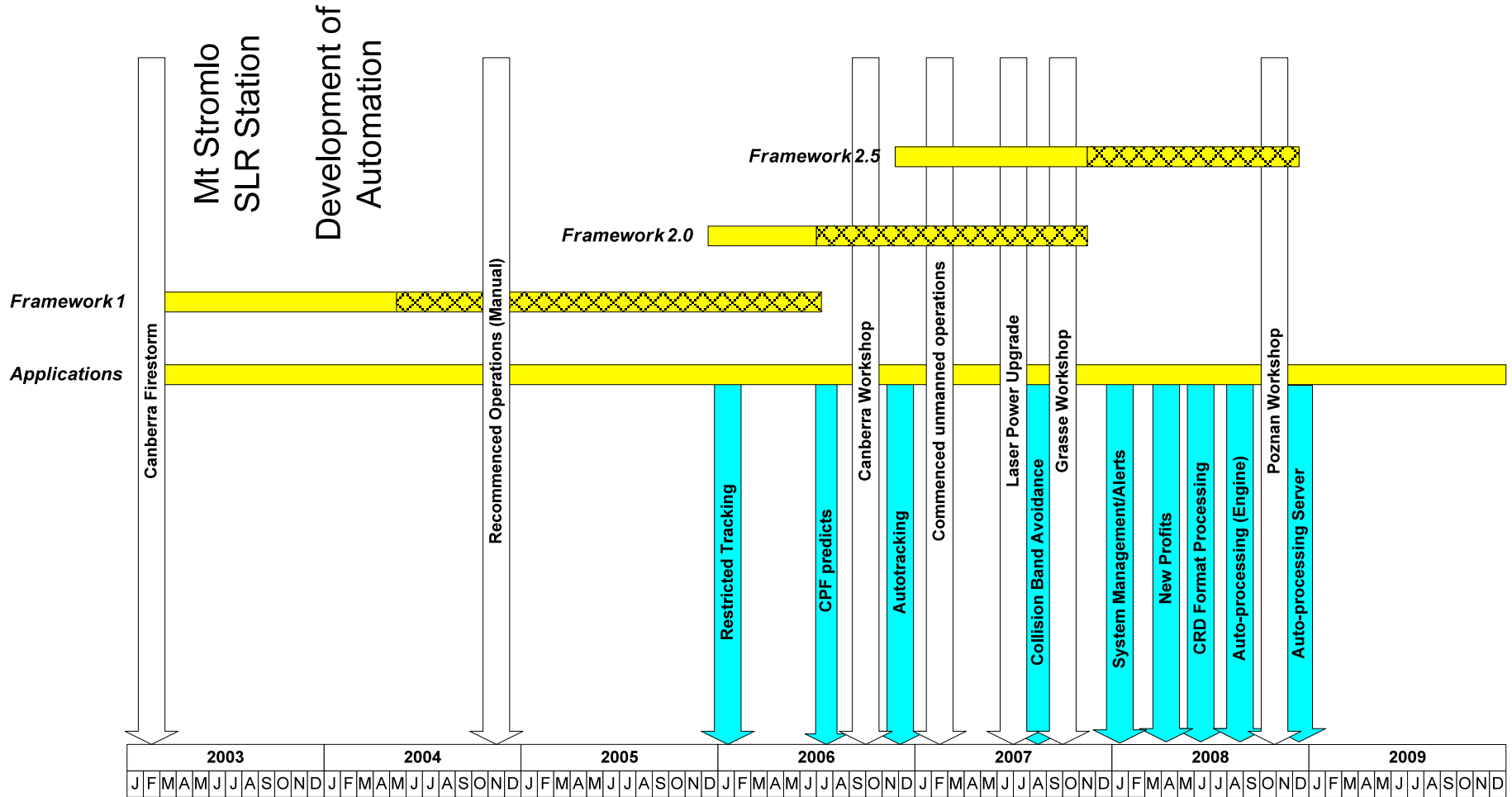
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Timeline





Progress - Routine

- Auto-tracking
- System management facility.
- System monitoring and SMS alerts.
- Remote Access and Control
- Backups and archiving



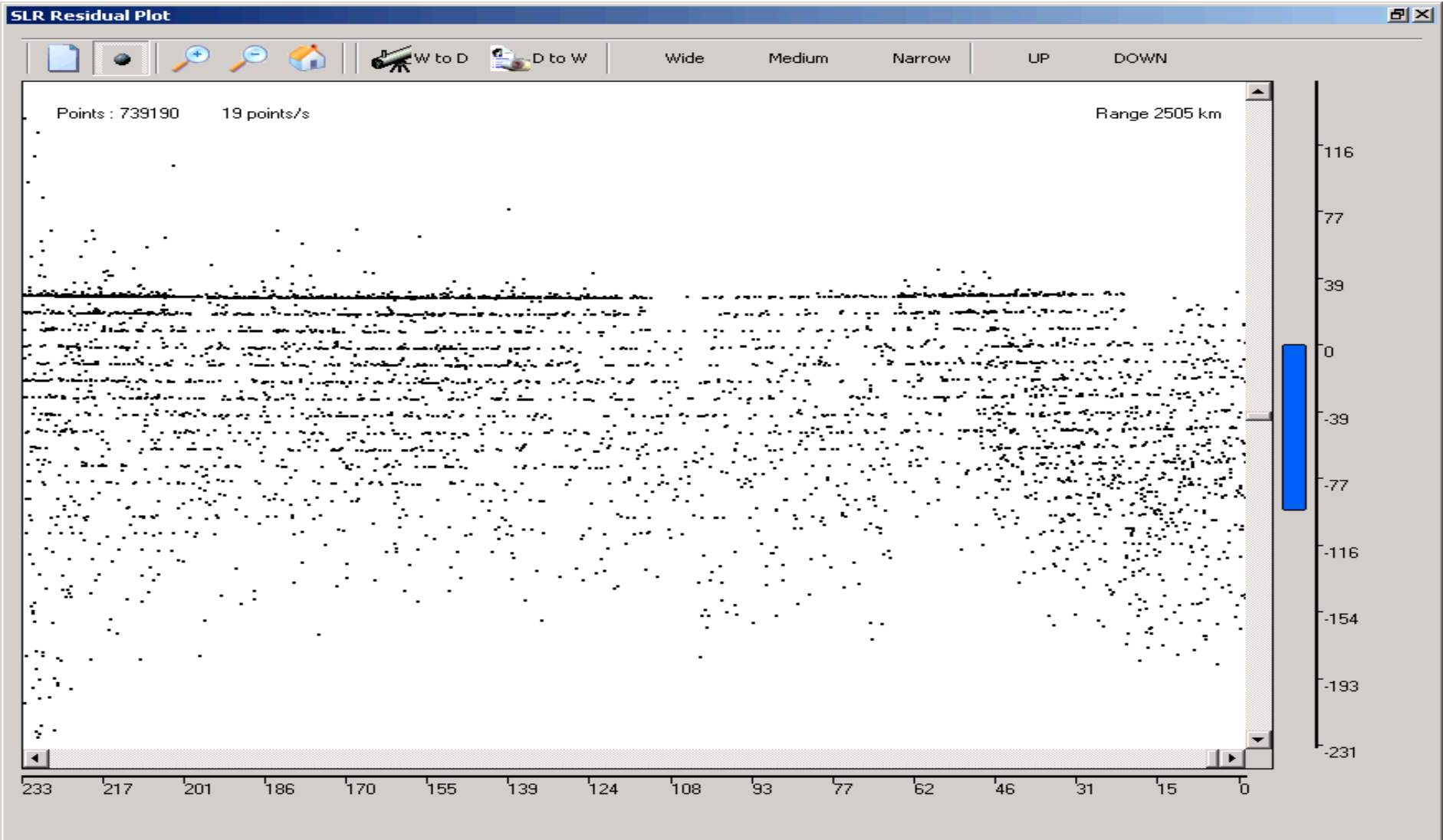
Progress - Recent

- New Post Processing GUI Application “Profits” completed.
- Supports manual post-processing including graphical facilities.
- Contains new auto-processing library. Supports testing of auto-processing algorithms.
- Supports generation of files in current format and new CRD format using XML/XSLT.
- New auto-processing server in test.



Issues/Opportunities

- **On-the-fly Auto-processing**
 - identification of passes - pass segments.
 - identification of completed passes - fixed targets like geostationary and cal targets.
- **Quality of Auto-processed Results**
 - multiple processing strategies.
 - quality criteria.
 - improved per satellite parameterization.
- **Other**
 - multiple tracks (pre-pulses) affects auto-tracking and auto-processing.





Conclusions

- Significant progress in new automation facilities
- Auto-tracking etc. is now routine.
- Reduced staffing levels – pressure to complete. auto-processing.
- New post processing software completed.
- Unattended auto-processing facilities next 1-2 months.