

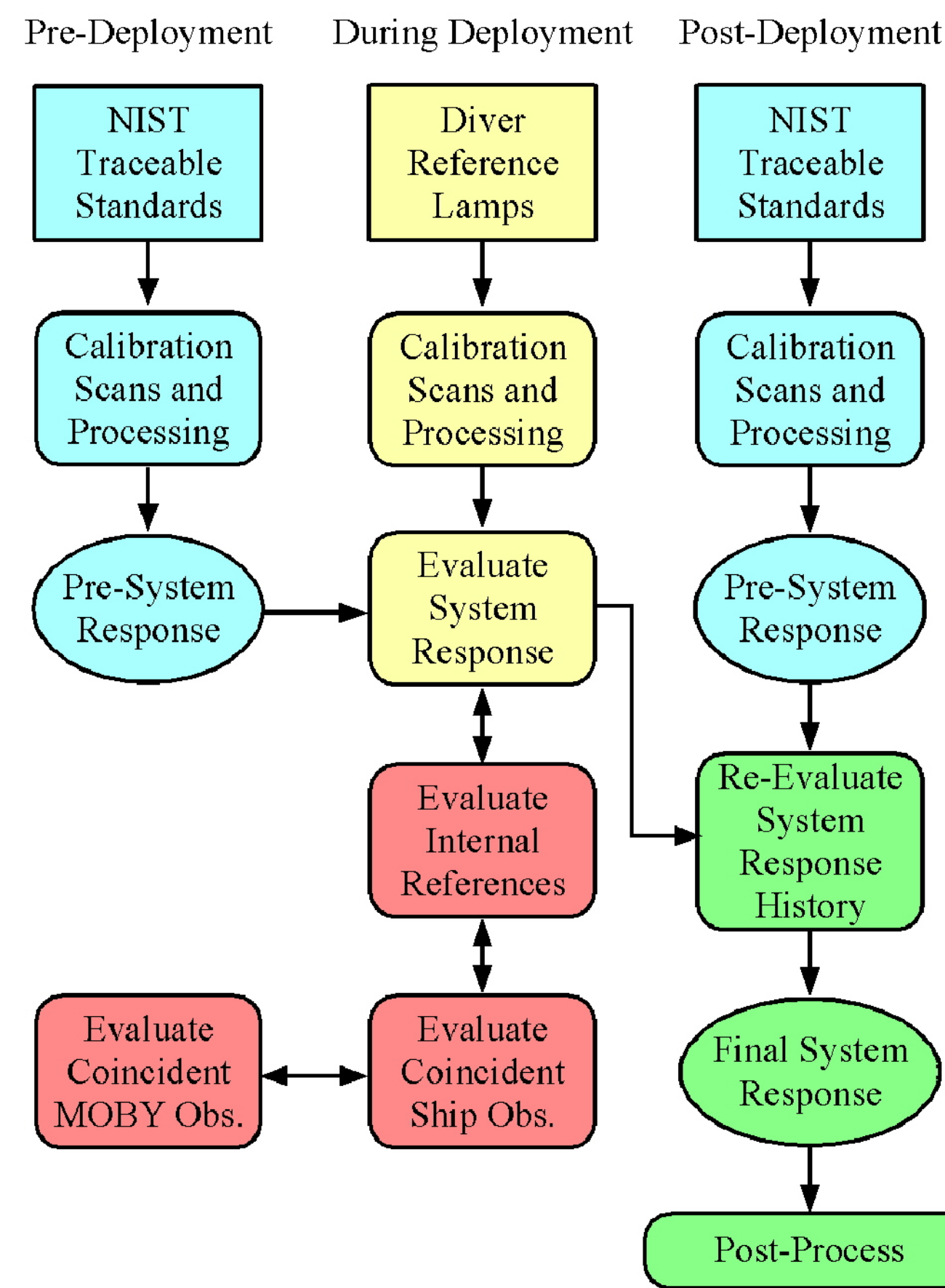
MOBY ABSOLUTE CALIBRATION AND STABILITY TIME SERIES

Michael E. Feinholz, Mark A. Yarbrough, Stephanie J. Flora : Moss Landing Marine Laboratories, 8272 Moss Landing Road, Moss Landing, CA 95039

Summary :

- 1.) Spectral radiances of MOBY calibration sources accurate to within +/- 3 % from 412 to 870 nm
- 2.) Internal Reference stability average ~ 1 %
- 3.) Diver References (relative to initialization) average: Lu +/- 2 %, Ed < 5 %
- 4.) System Response during deployment average stability: Lu ~ 2 %, Ed ~ 3 %
- 5.) Post Processing to include MOS stray-light correction and temperature correction (algorithms under development).

MOBY CALIBRATION



SLM : Standard Lamp Monitor

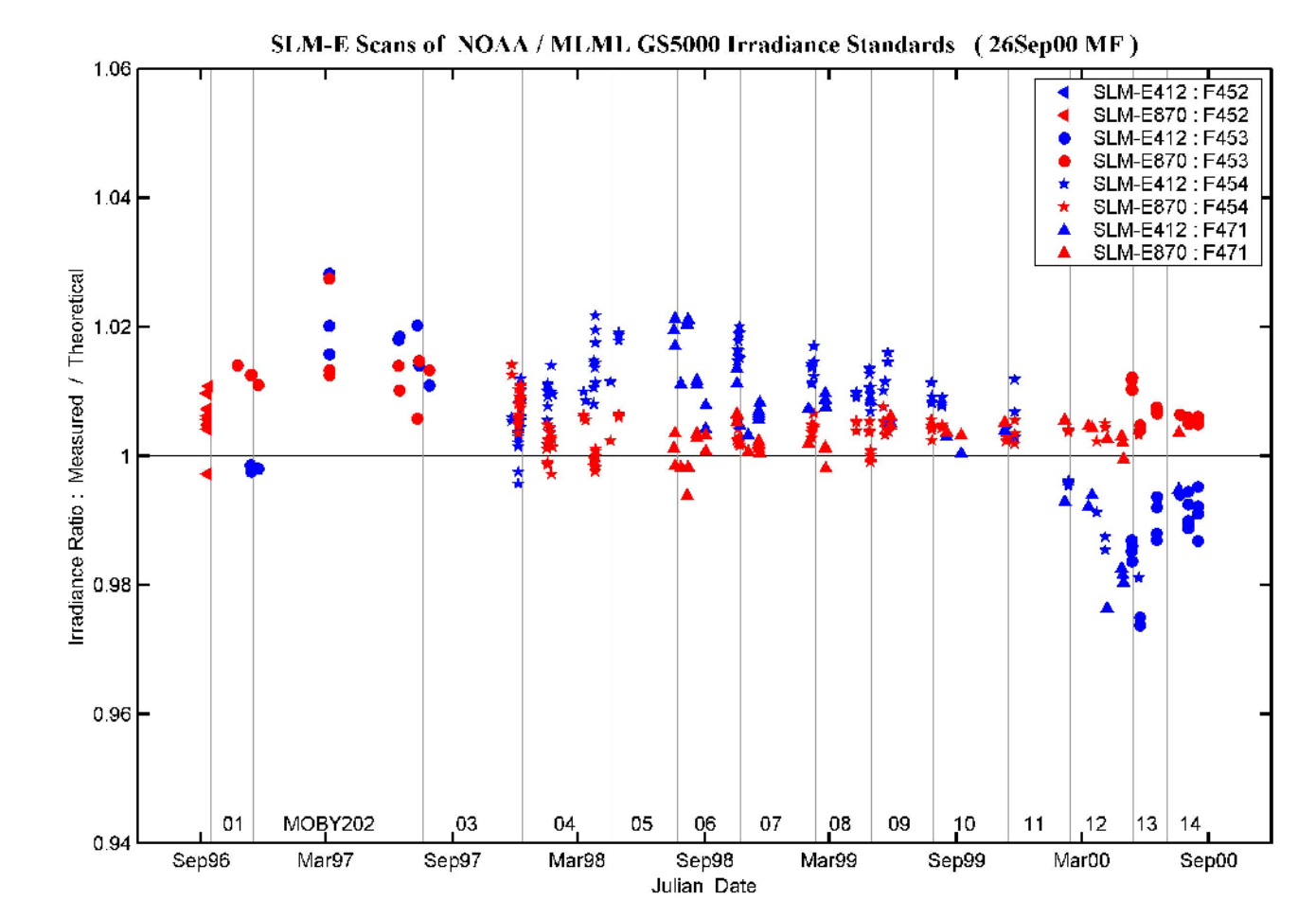
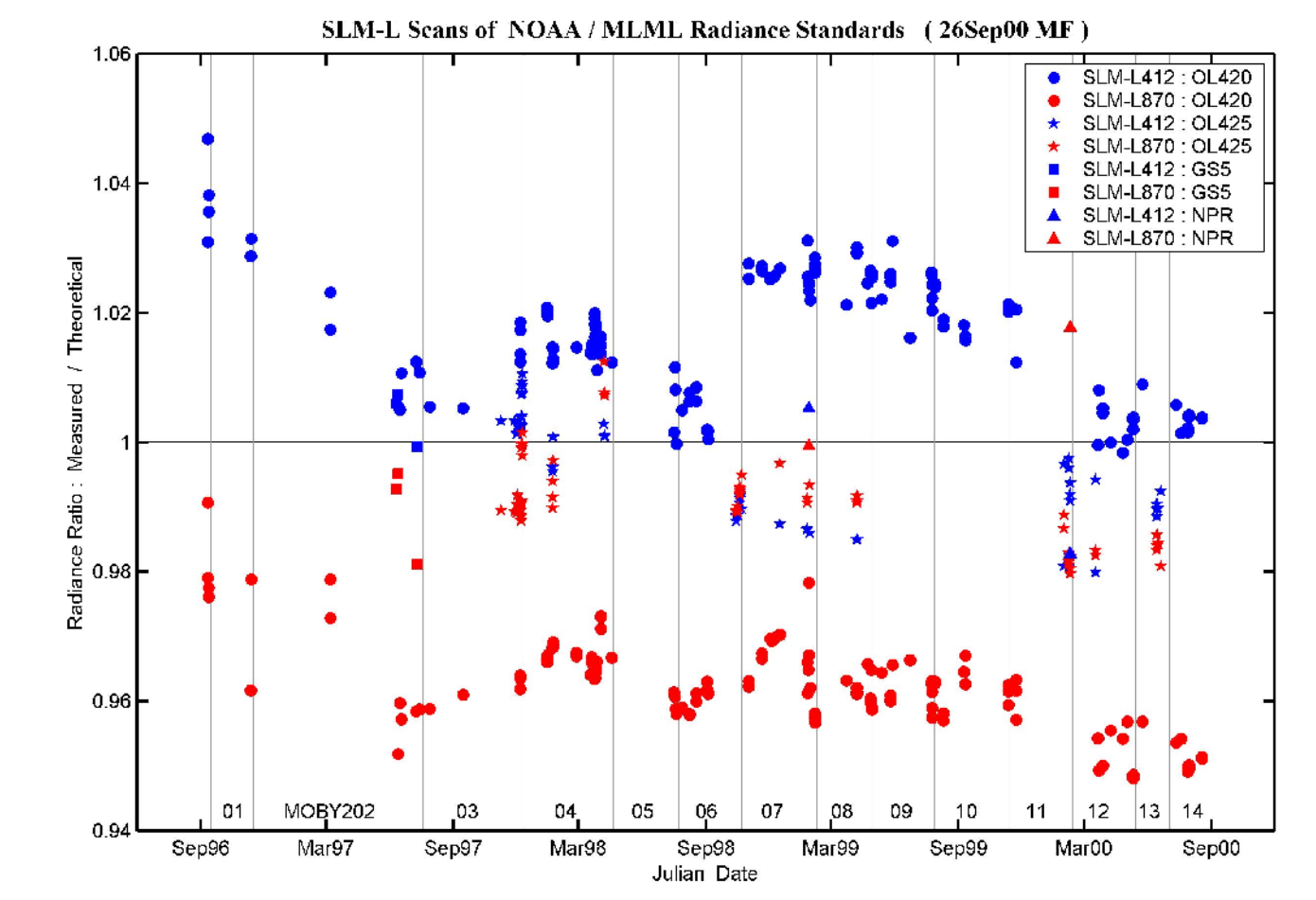
Verification of Standard Sources

2 Modes : Radiance and Irradiance

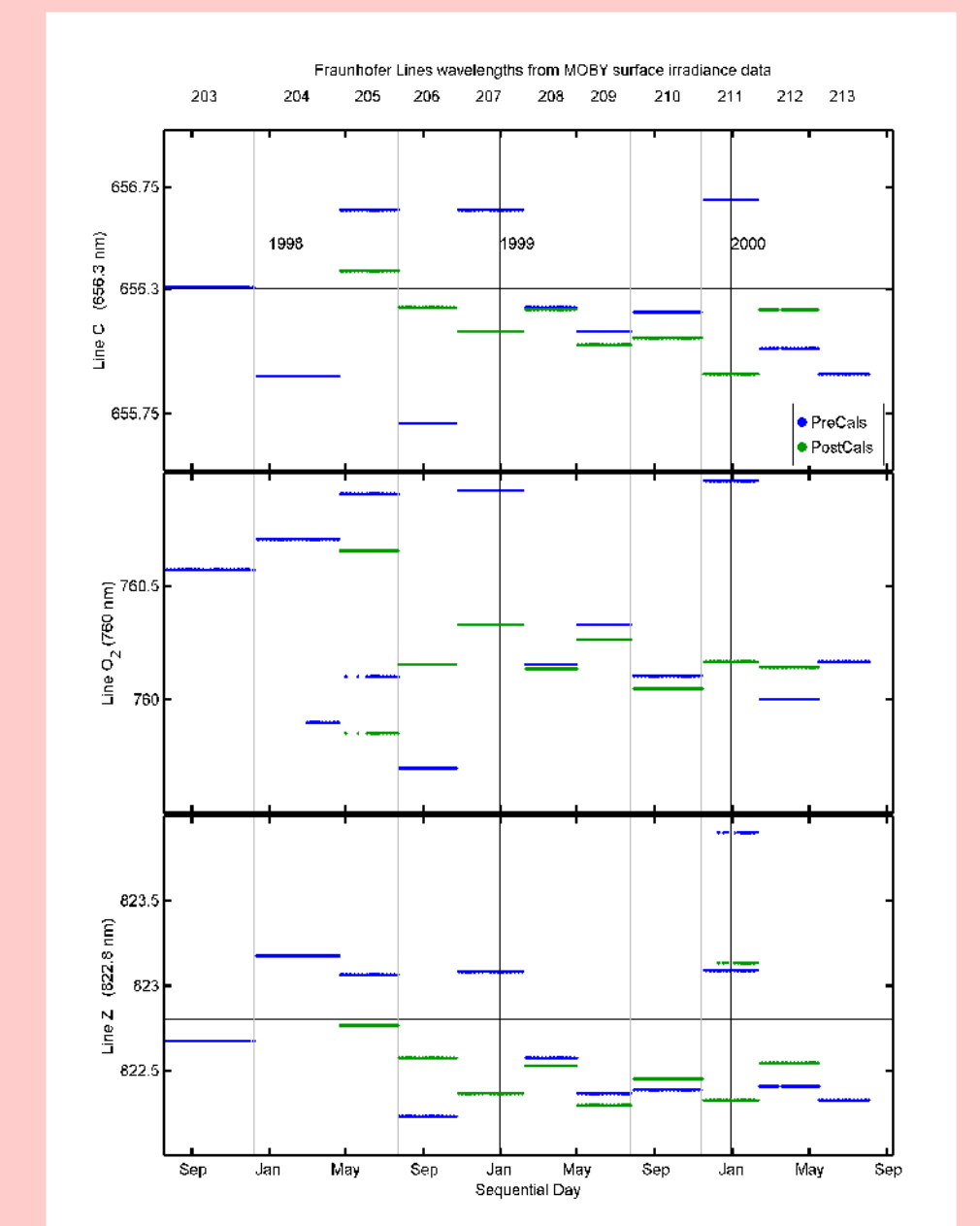
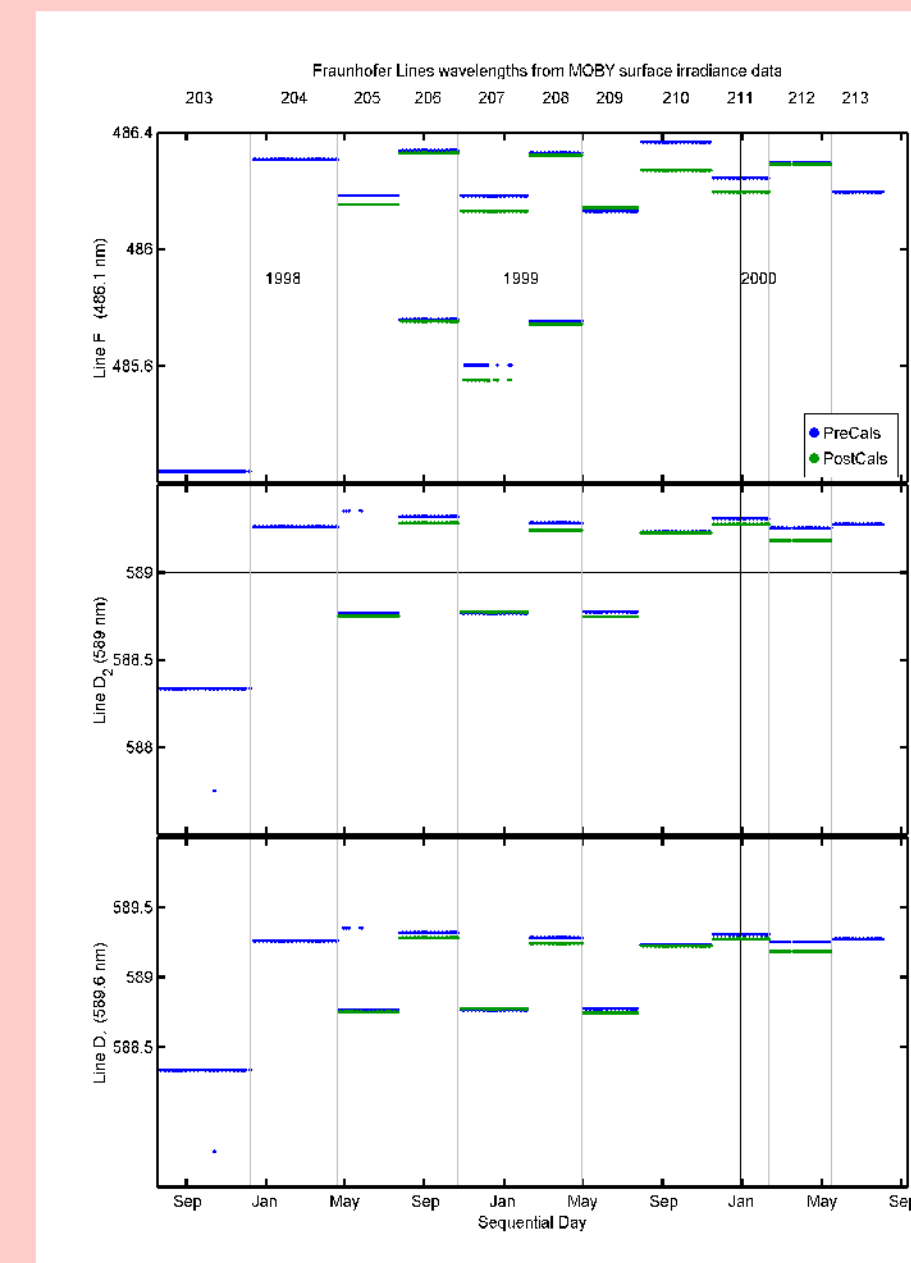
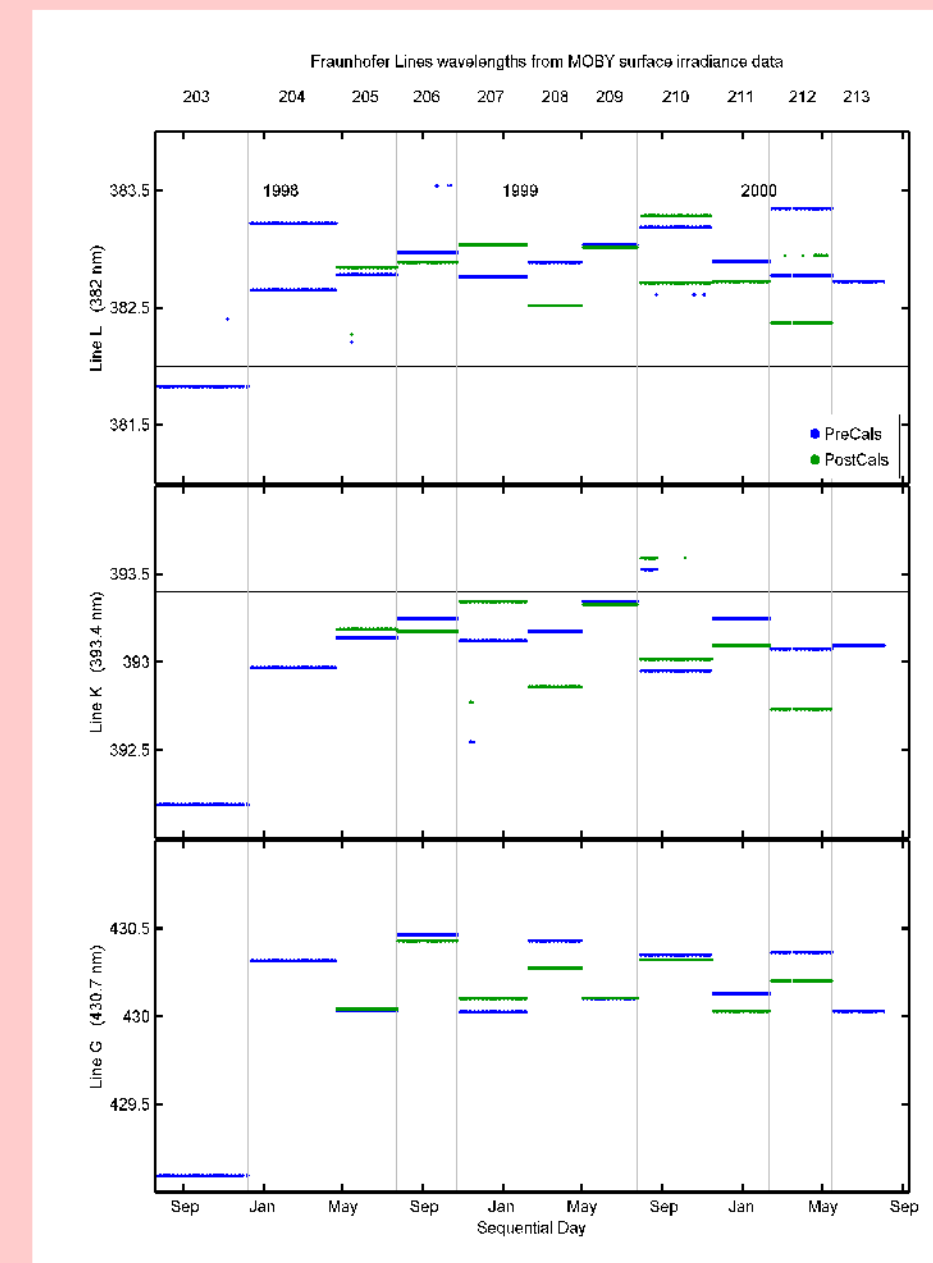
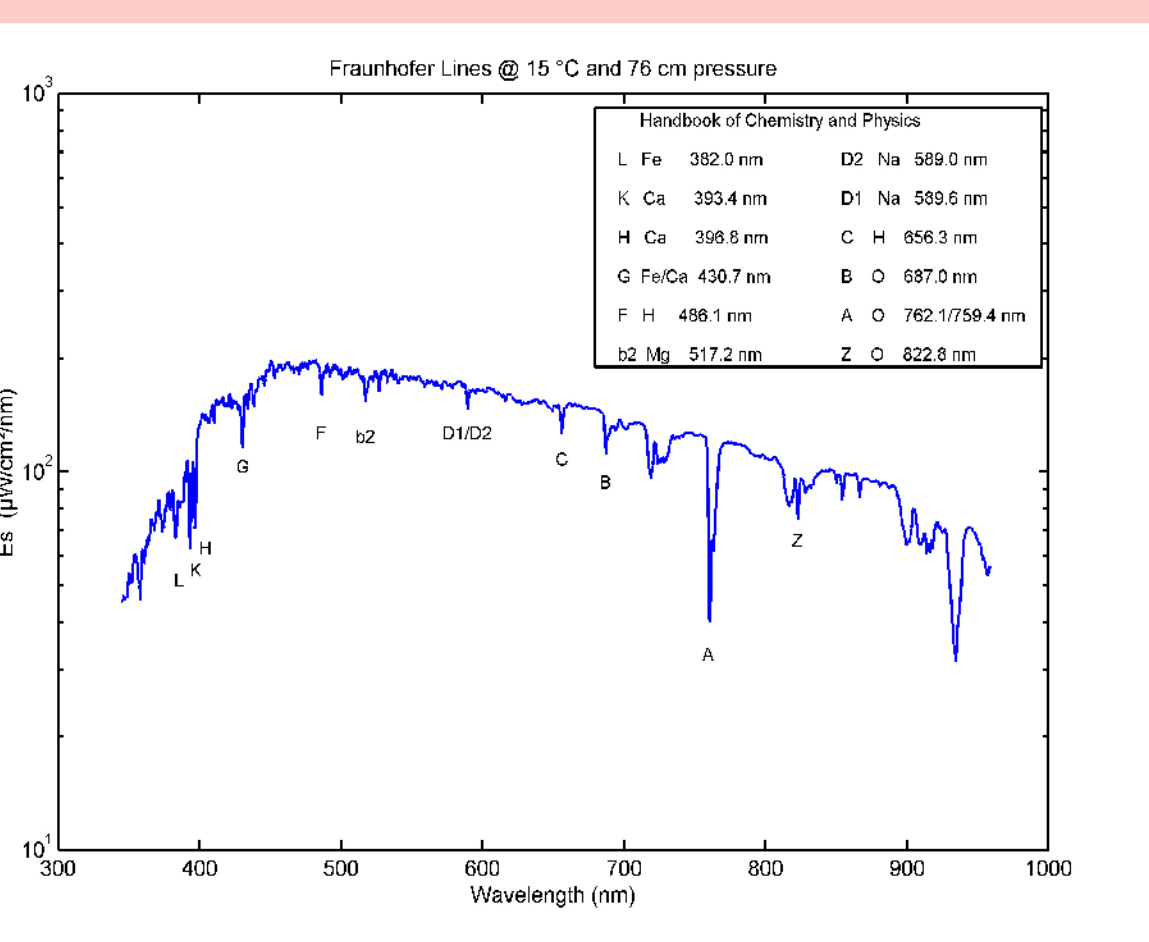
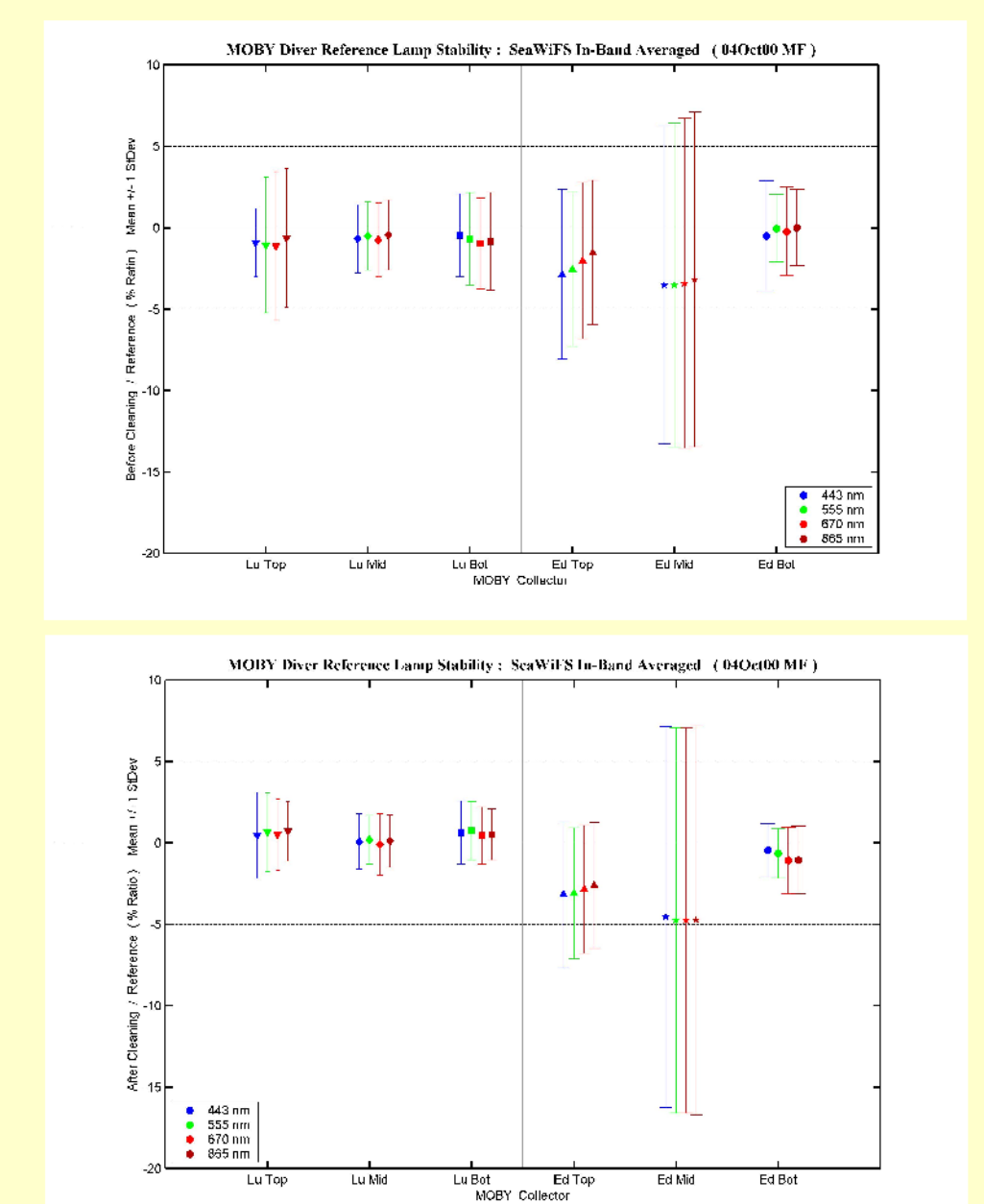
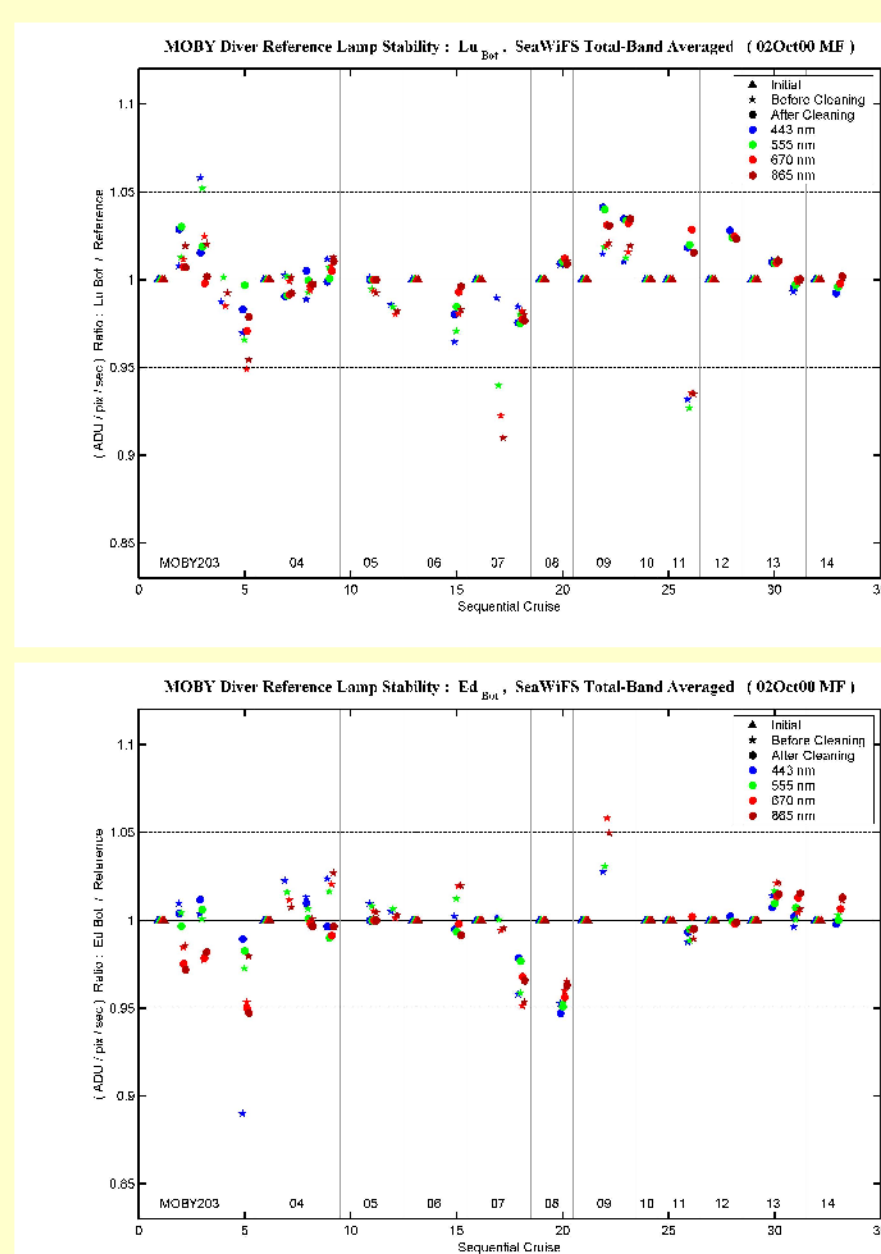
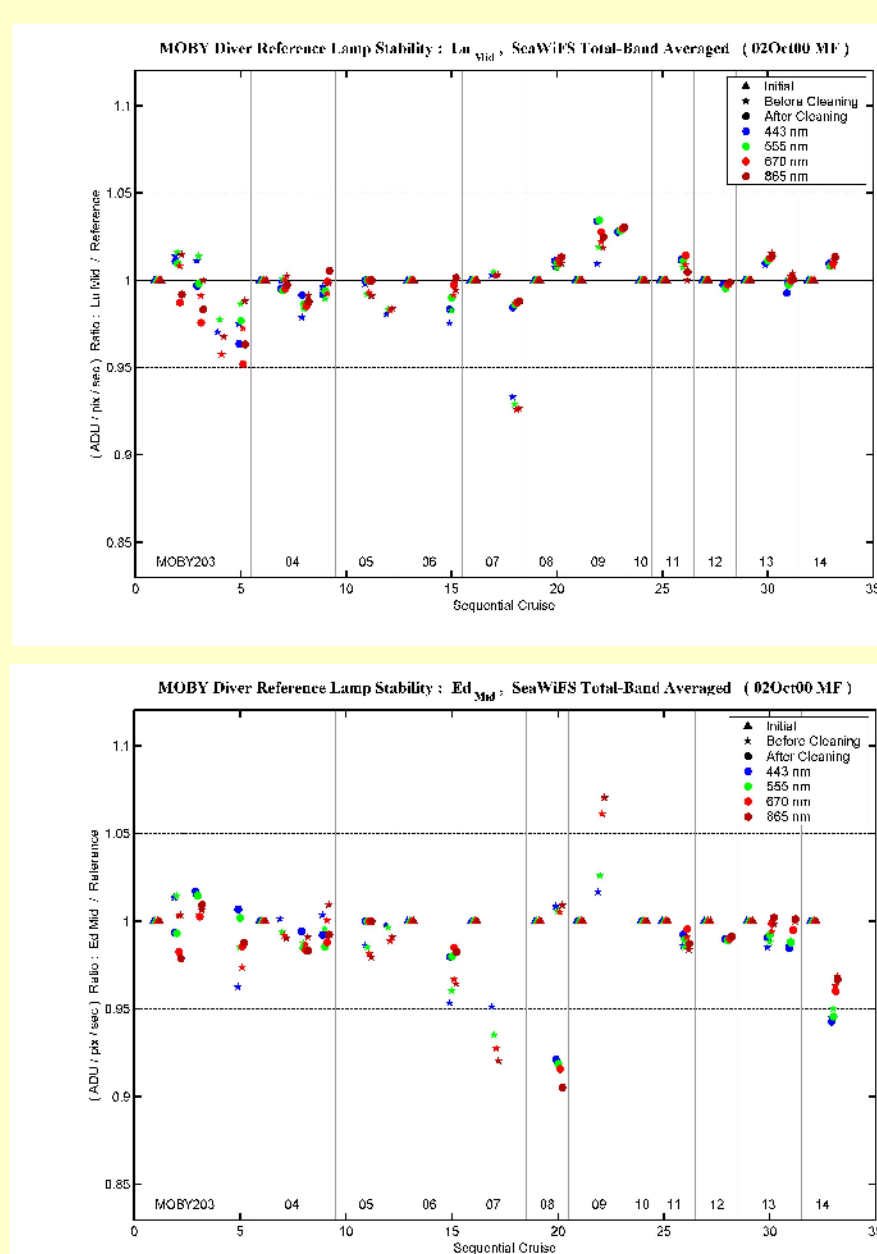
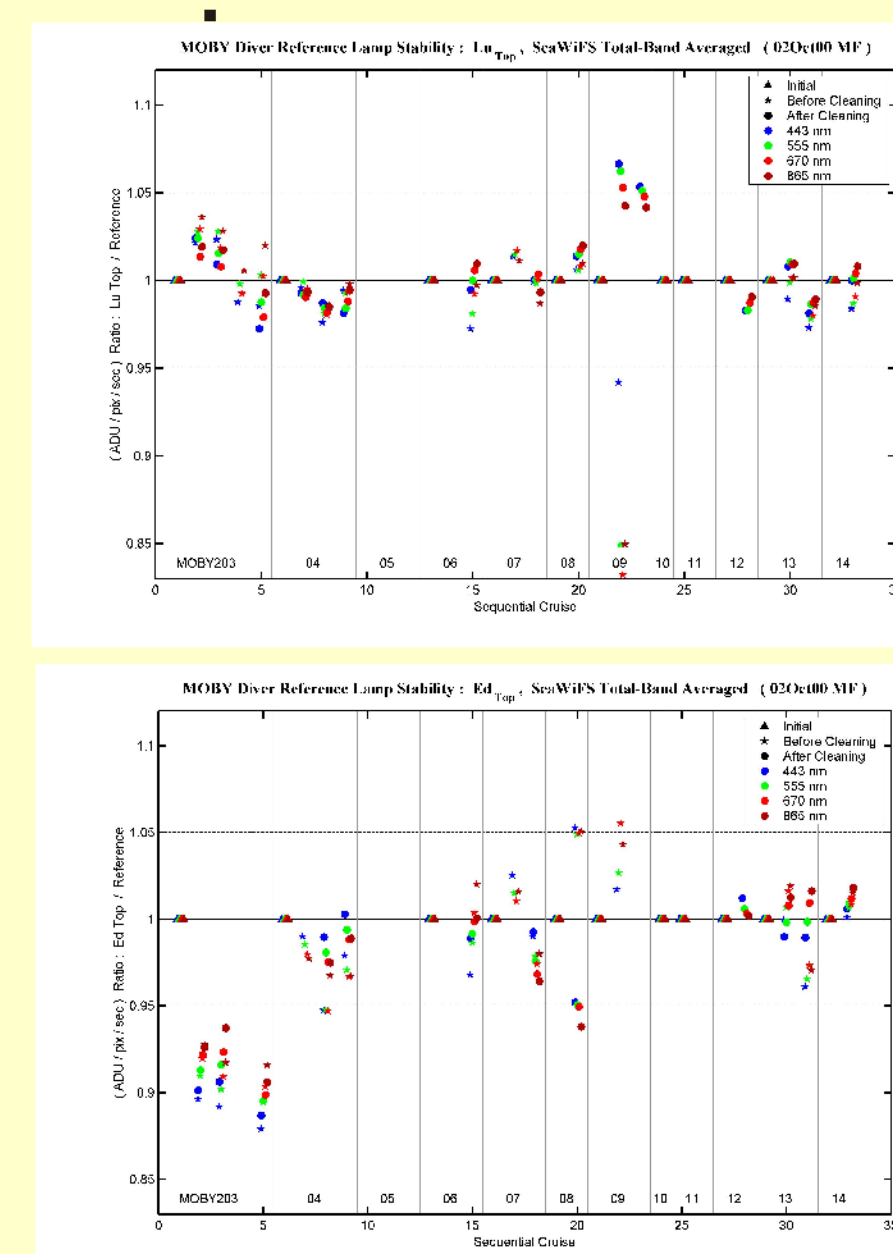
2 Channels : 412 nm and 870 nm

3 NIST Characterizations / Calibrations

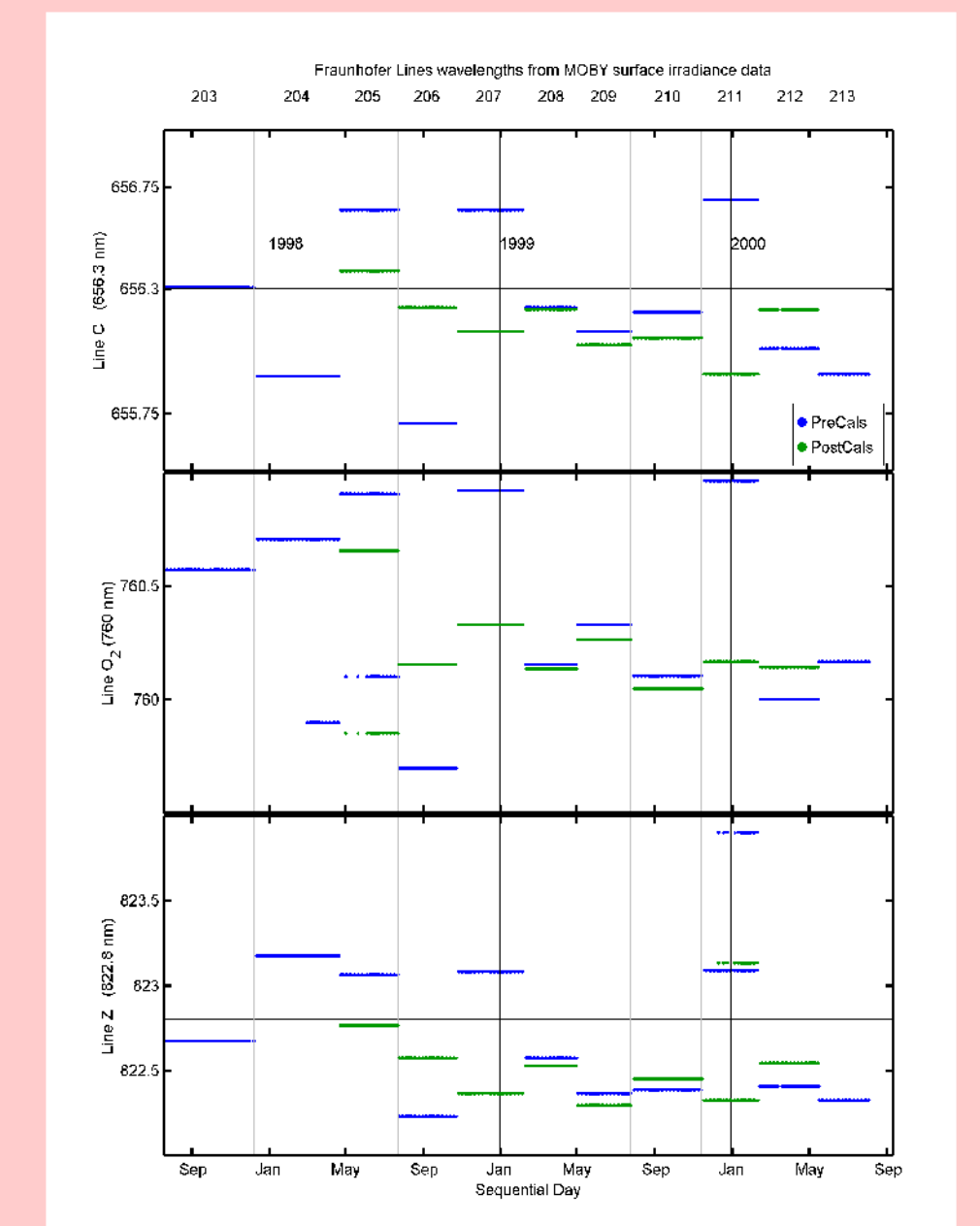
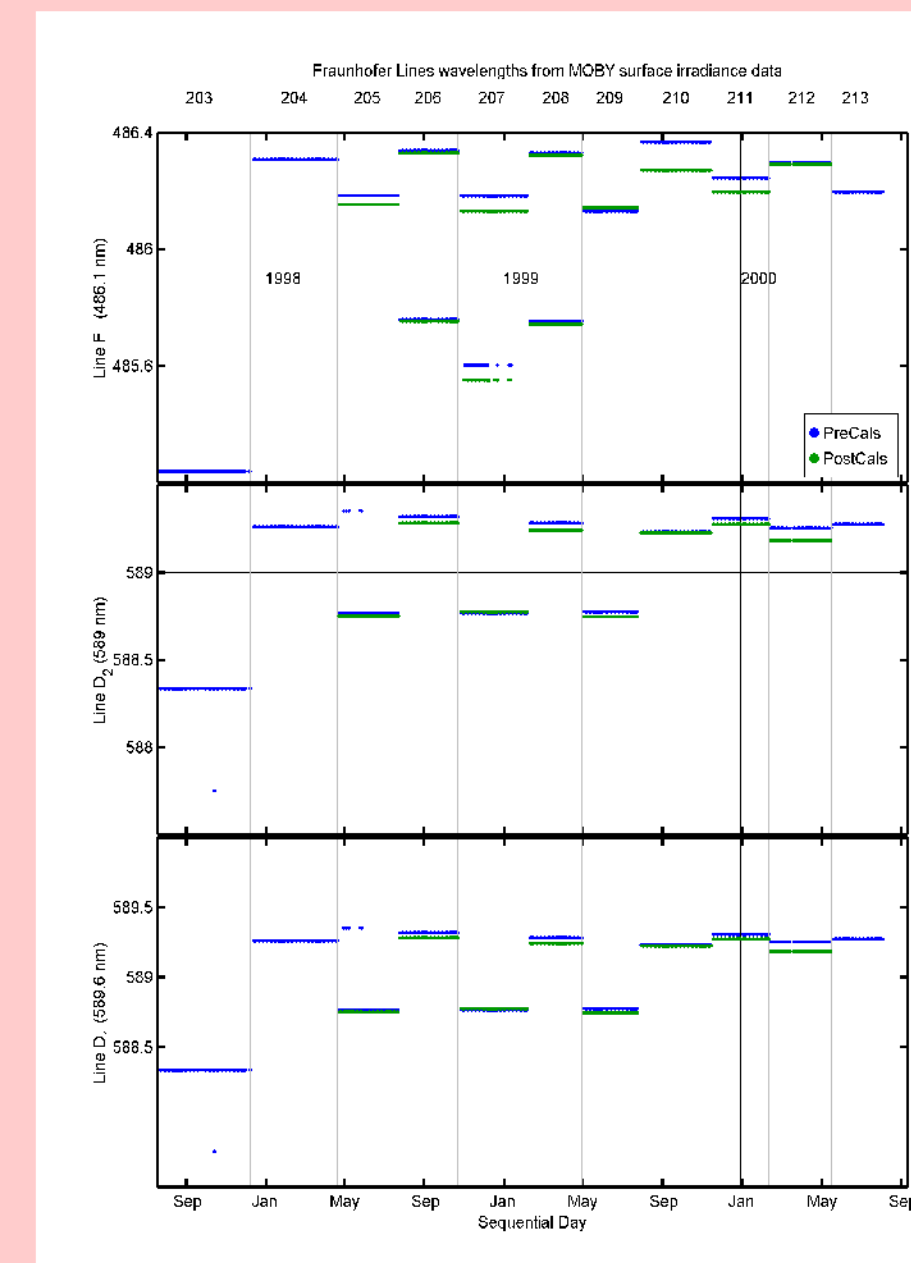
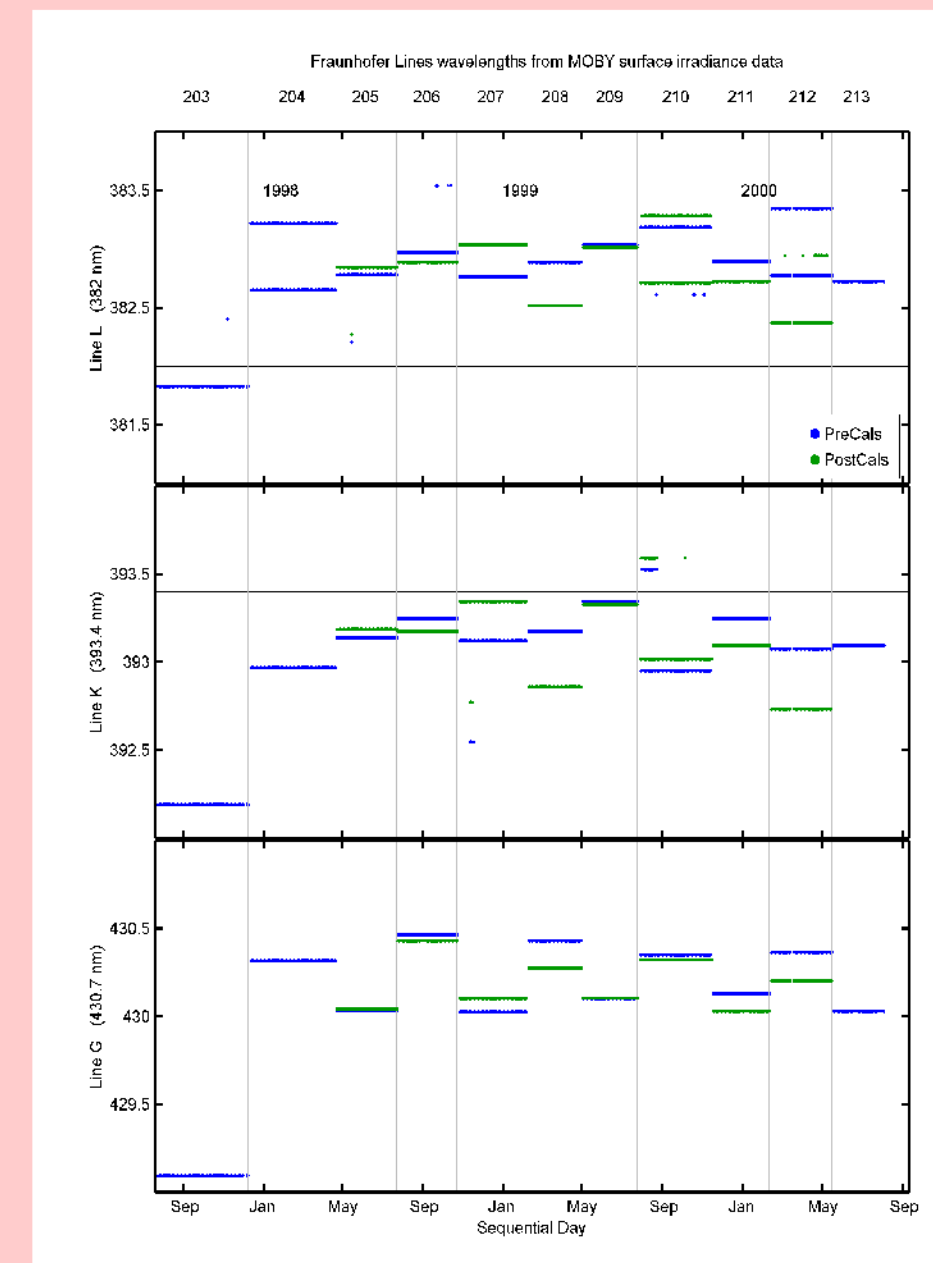
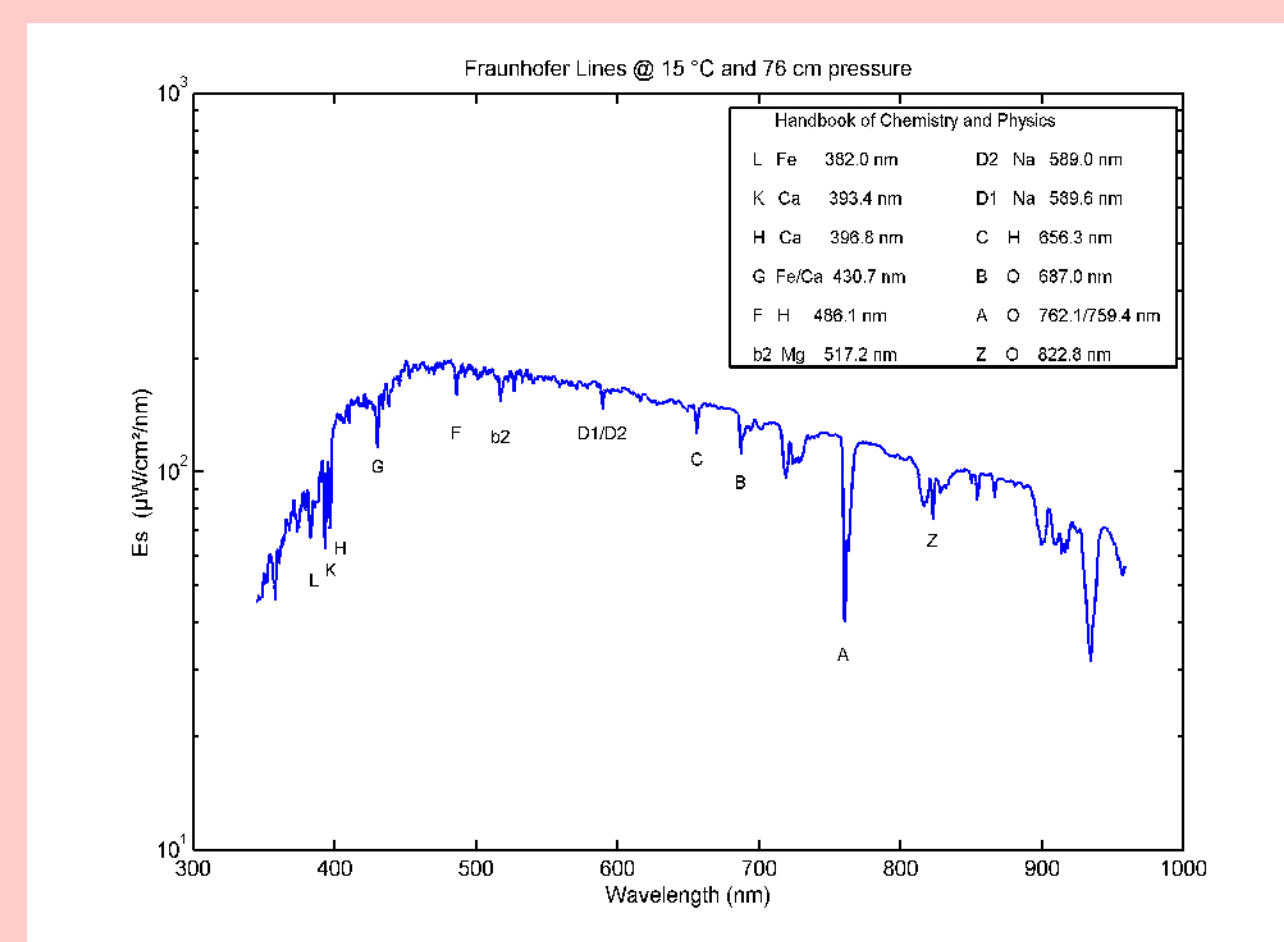
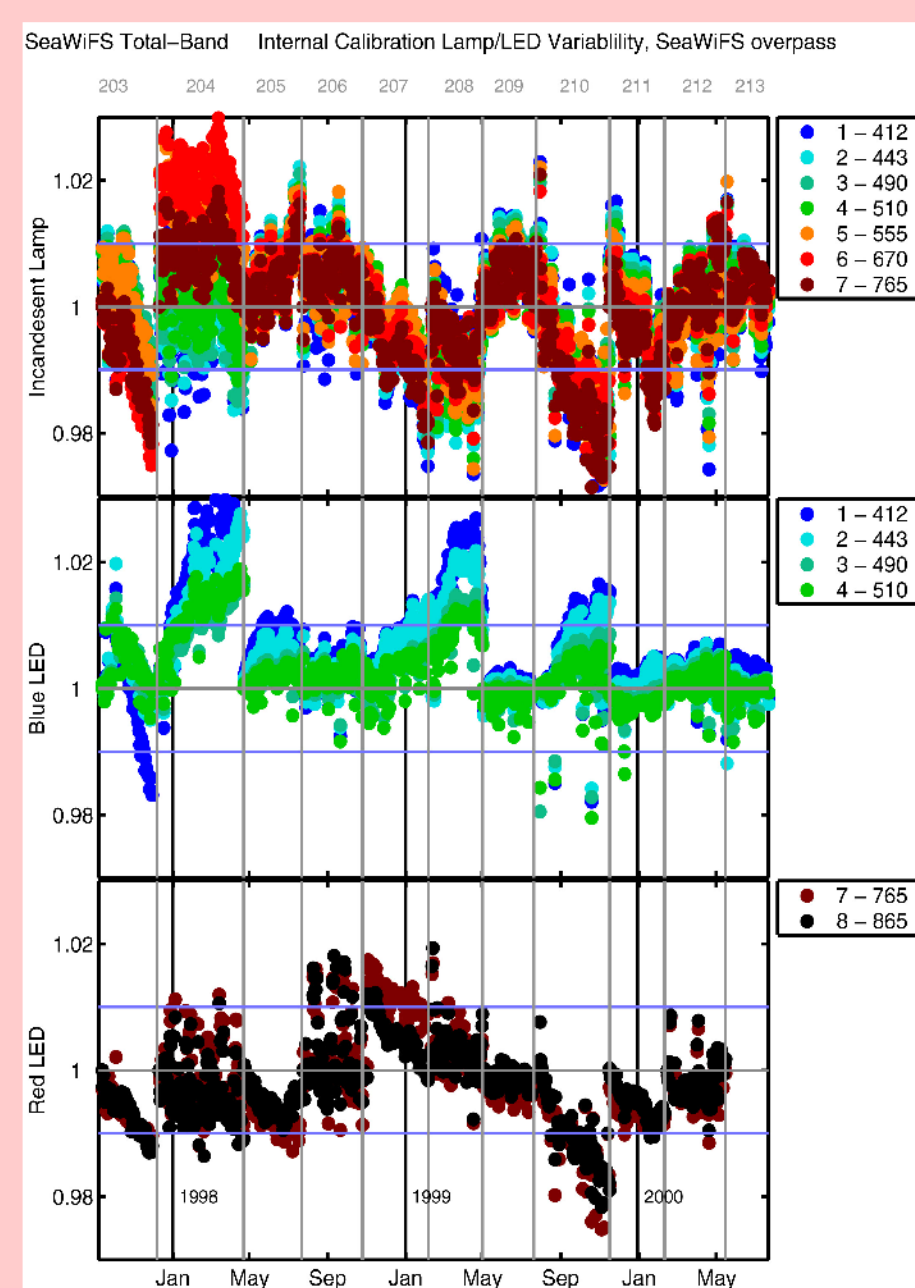
3 NIST Intercomparisons in Hawaii



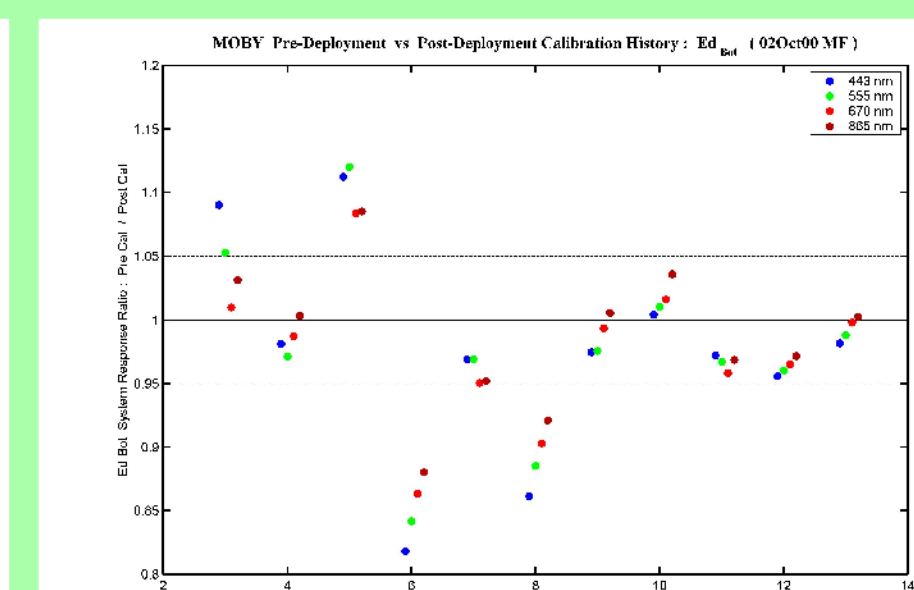
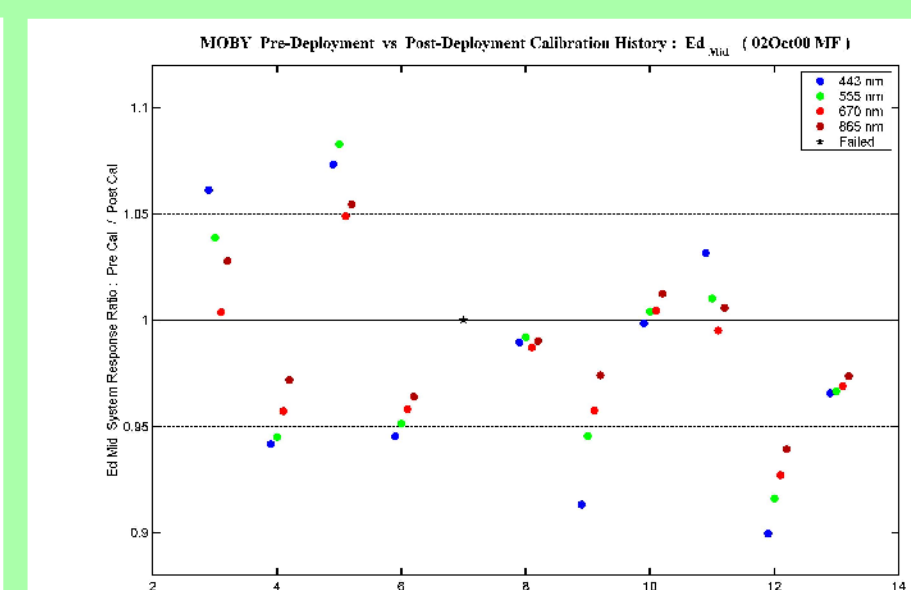
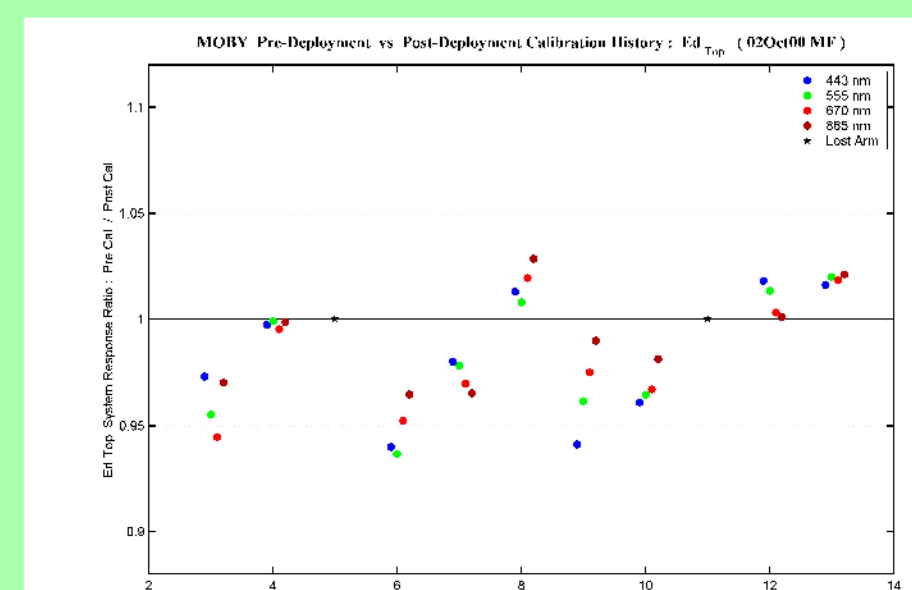
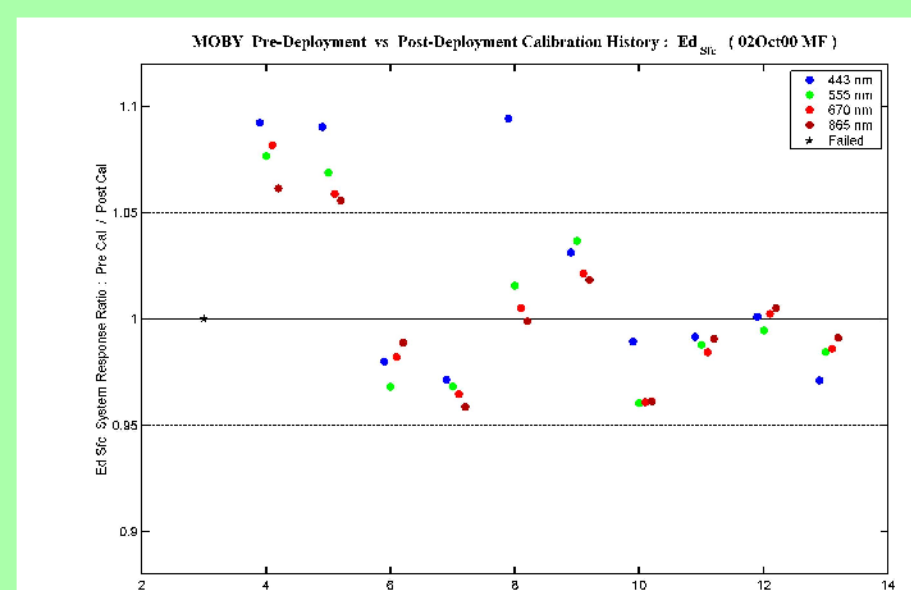
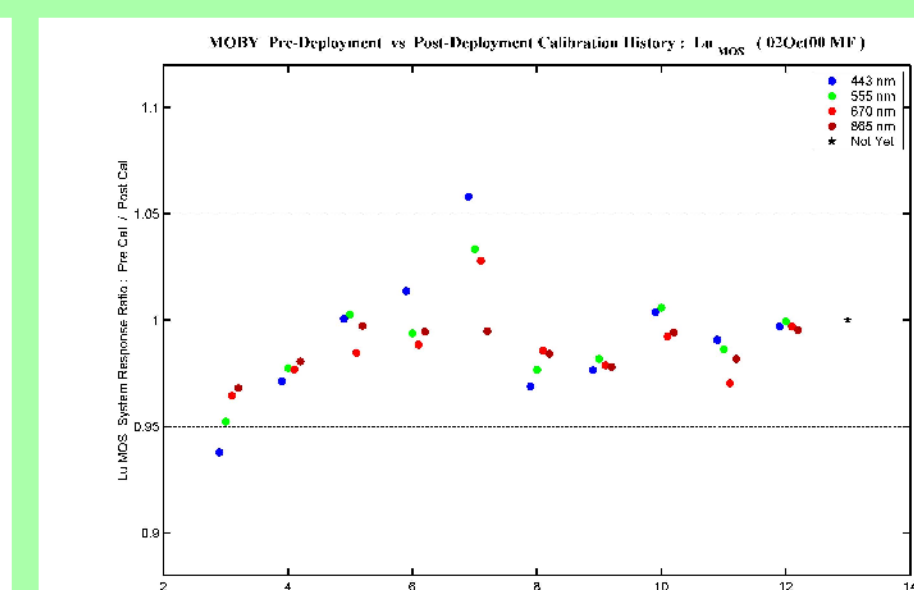
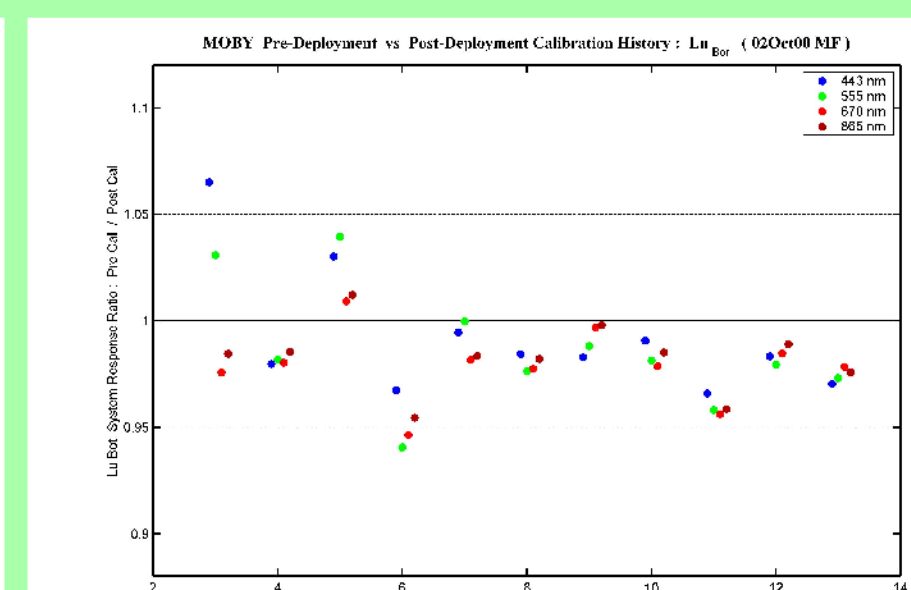
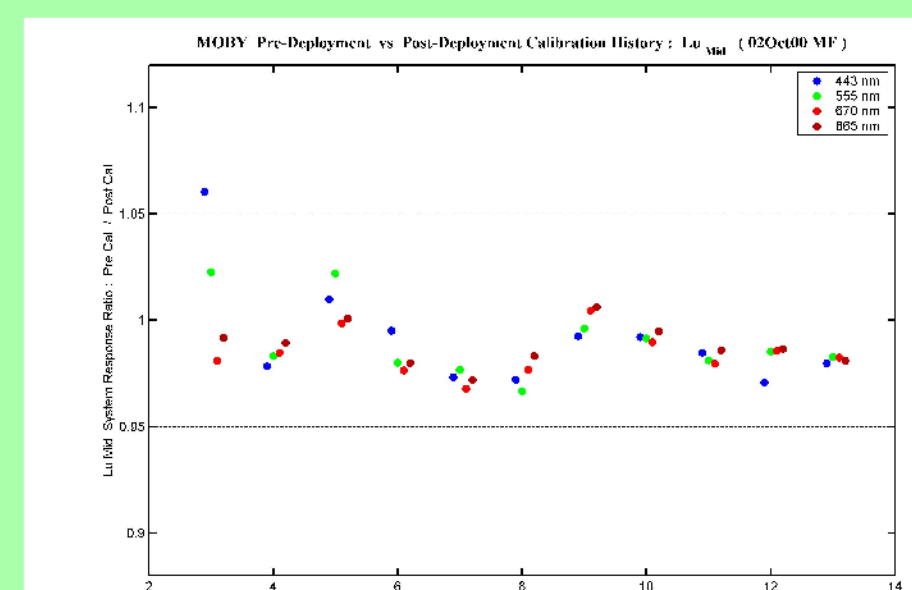
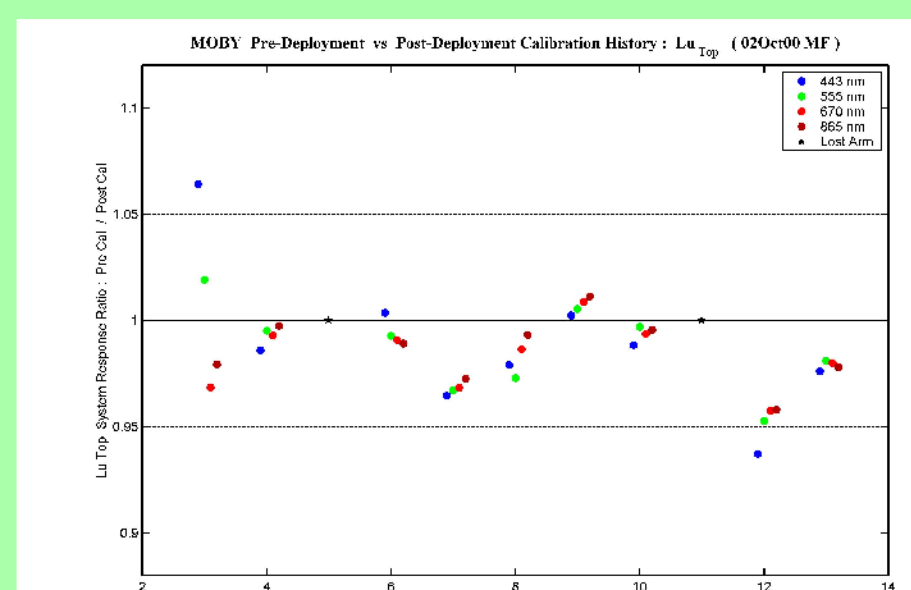
During Deployment : Diver Reference Lamp Scans and Process-



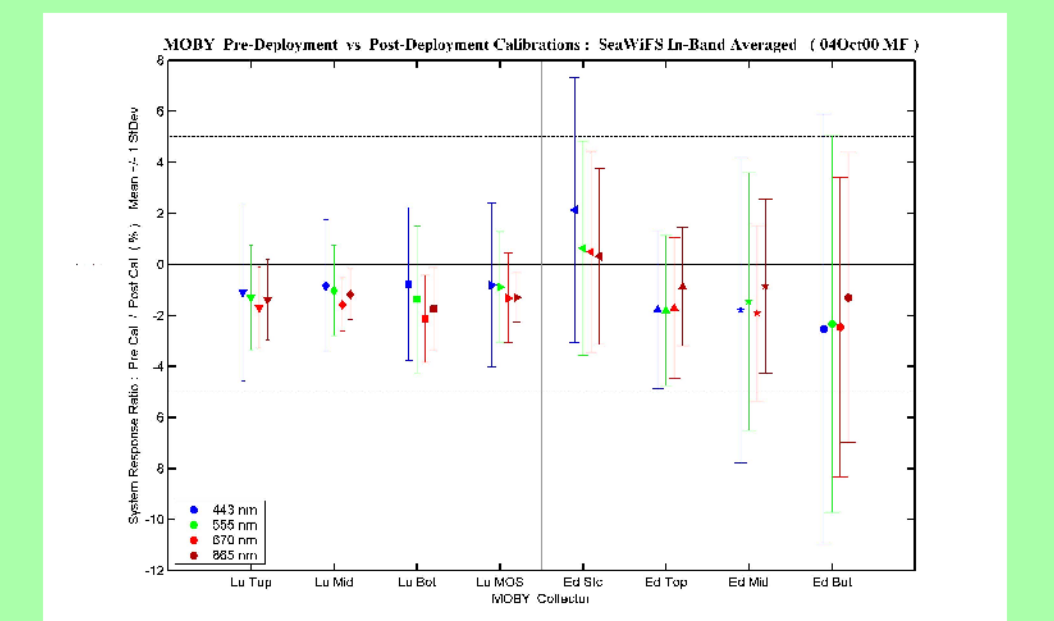
During Deployment : Evaluate Internal References (Incandescent, LEDs) & Fraunhofer



Post Deployment : Evaluate System Response History



Mean & StDev



Acknowledgements

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