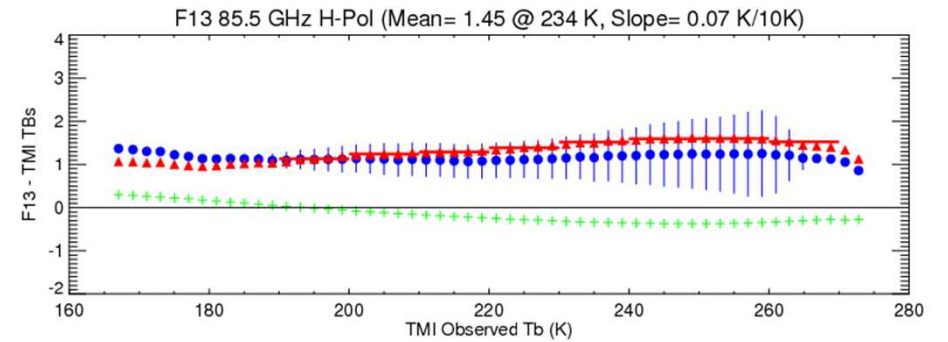
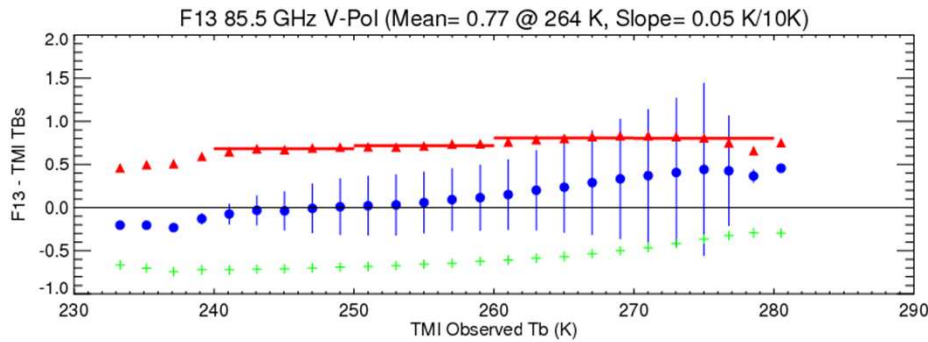
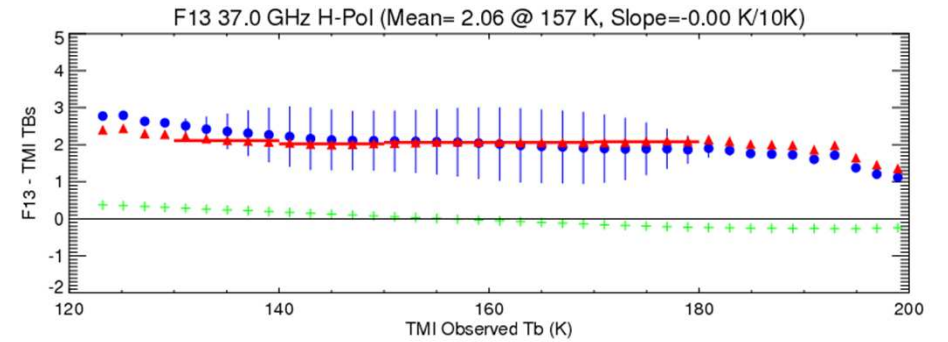
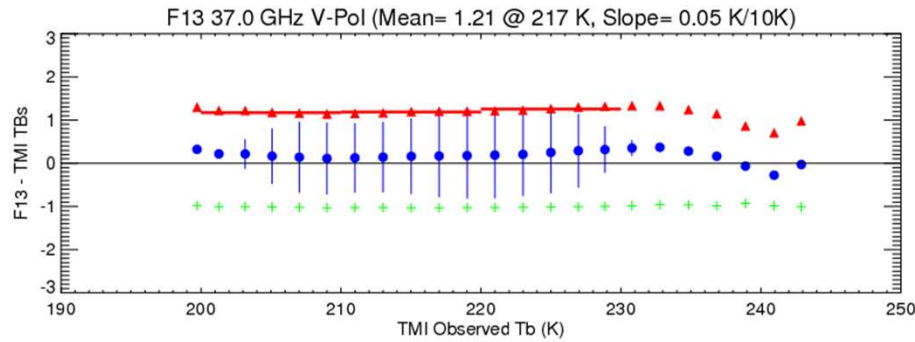
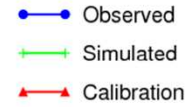
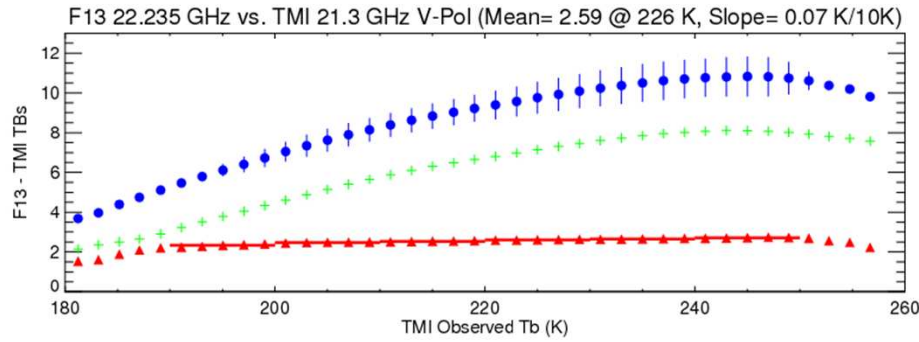
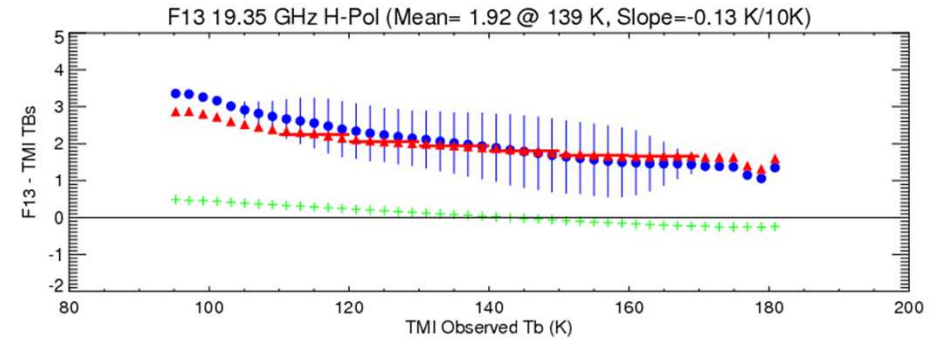
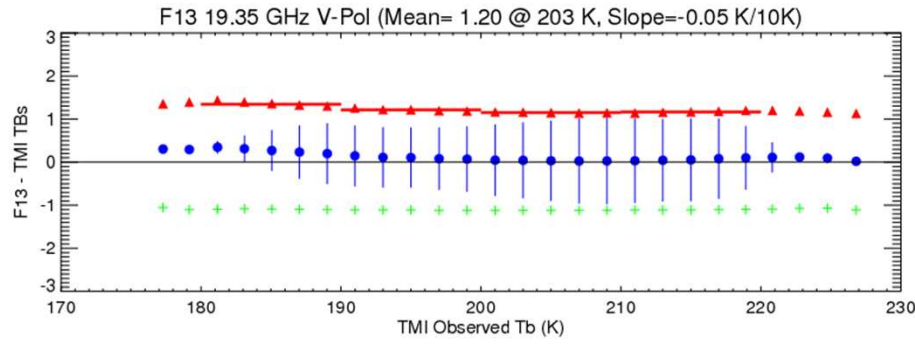
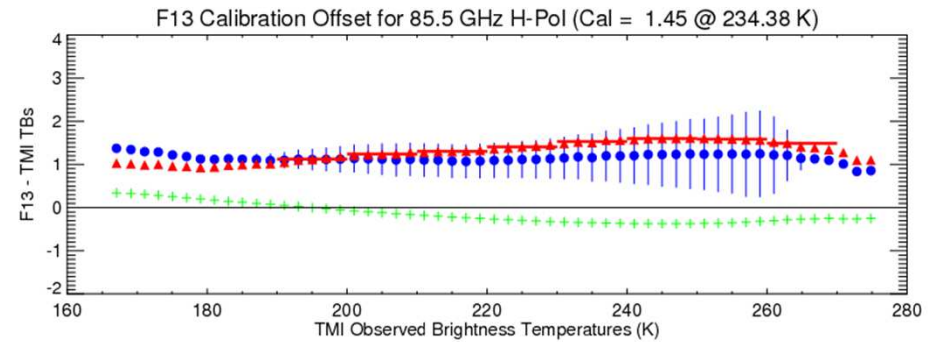
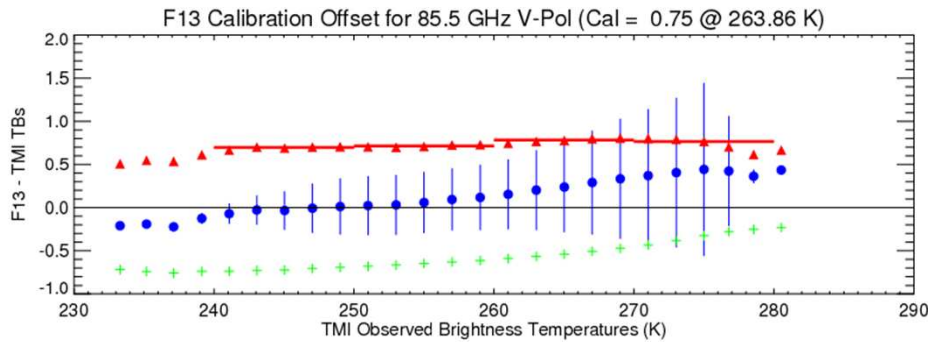
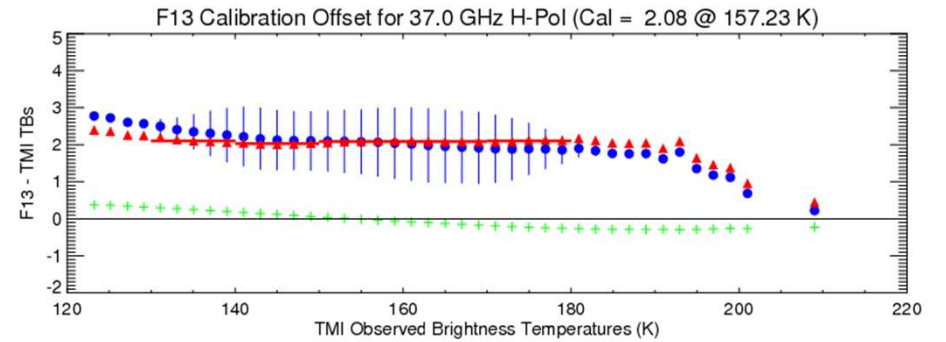
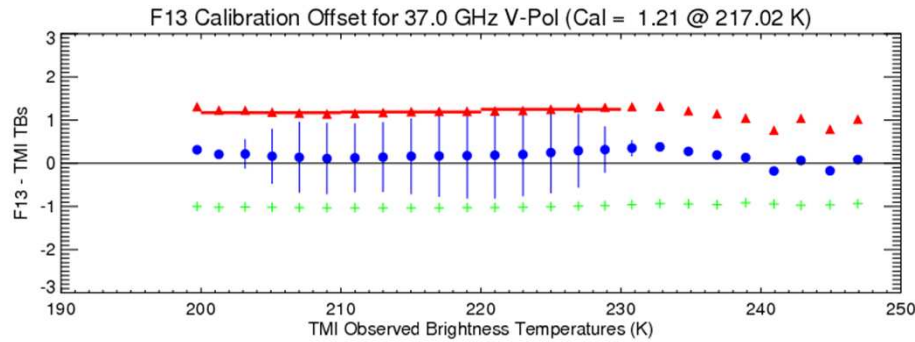
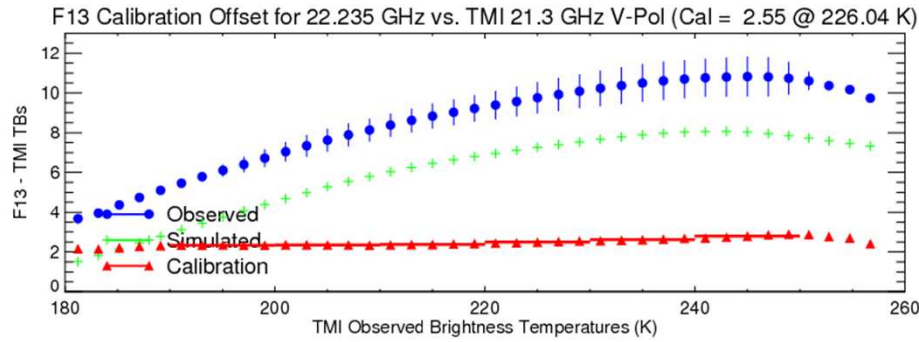
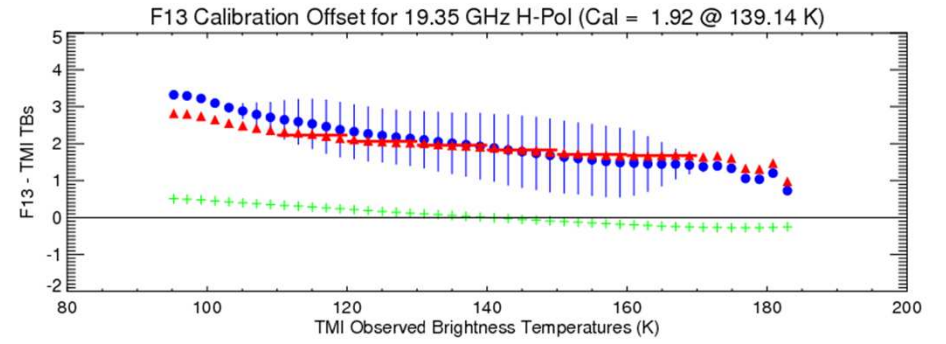
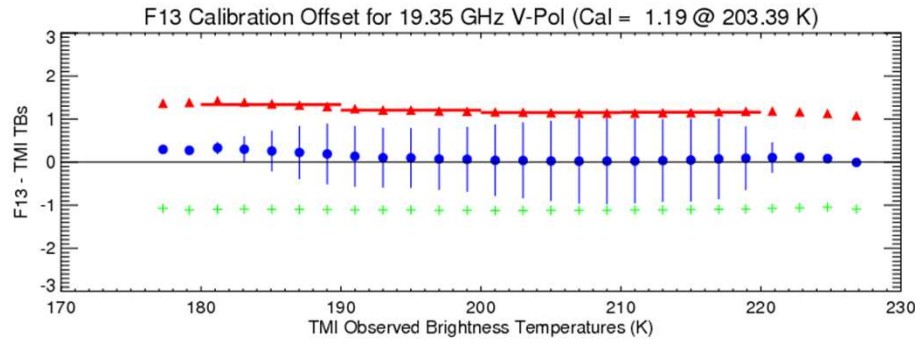


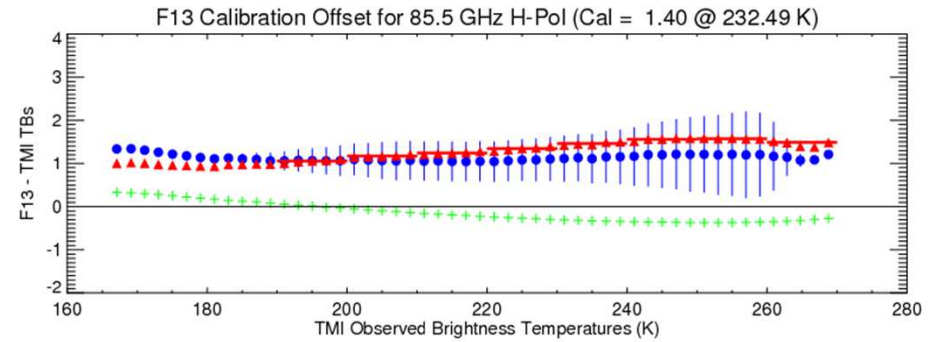
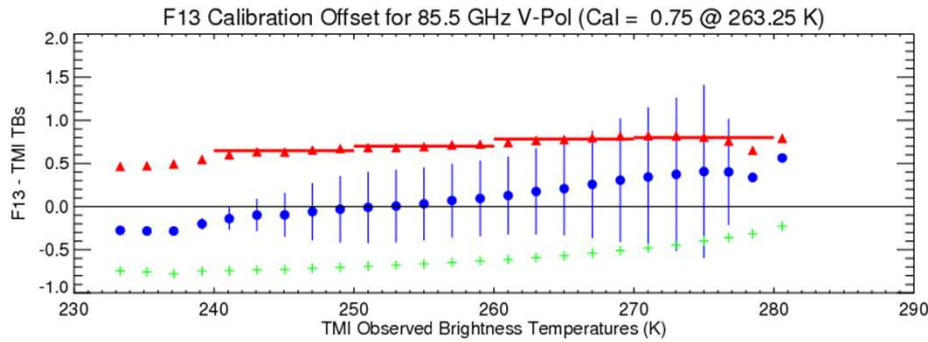
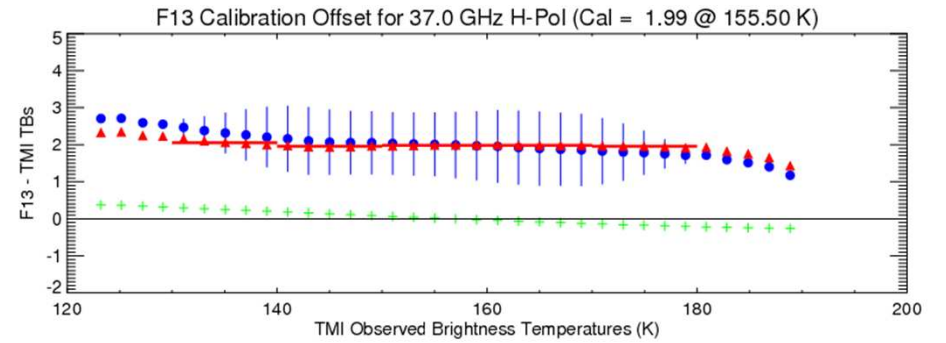
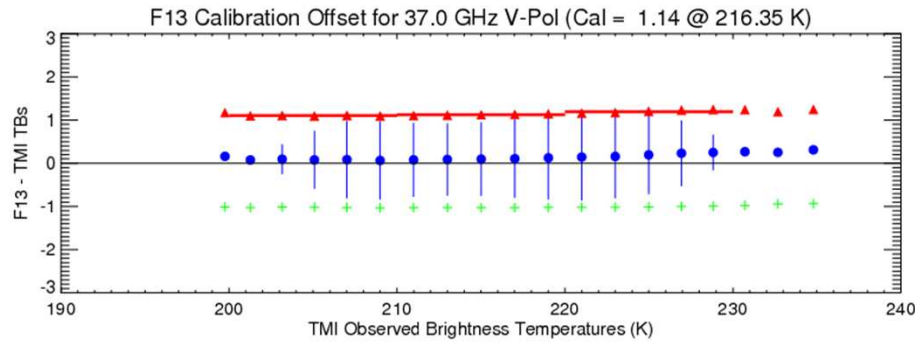
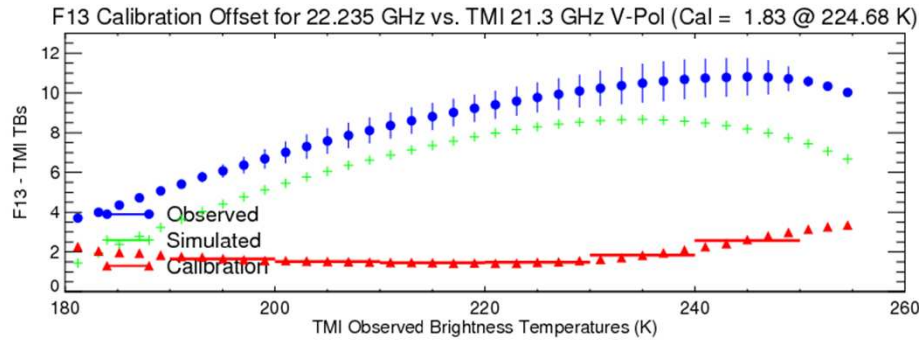
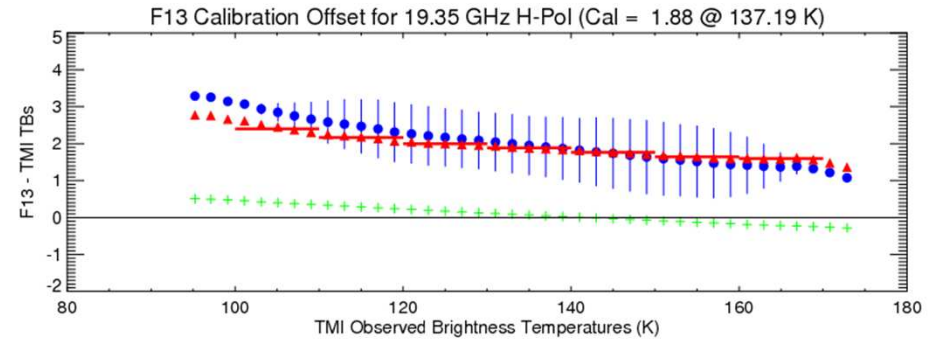
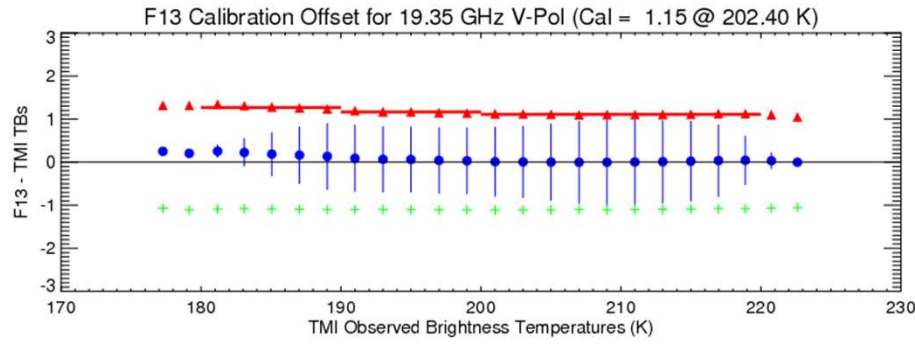
SSM/I vs. TMI Intercal

Wesley Berg

Colorado State University







SSM/I F13 vs. TMI Intercalibration Differences

Double Difference using ECMWF Interim Reanalysis

Year	19v	19h	22v	37v	37h	85v	85h
1998	1.25	2.30	2.52	1.29	2.50	0.87	1.43
1999	1.17	2.24	2.46	1.19	2.42	0.81	1.41
2000	1.10	2.20	2.41	1.12	2.34	0.78	1.38
2001	1.07	2.08	2.41	1.12	2.20	0.75	1.33
2002	1.21	2.03	2.59	1.23	2.21	0.83	1.40
2003	1.15	1.97	2.55	1.15	2.14	0.78	1.40
2004	1.18	1.95	2.59	1.18	2.15	0.76	1.41
2005	1.25	1.94	2.66	1.27	2.11	0.78	1.44
2006	1.23	1.89	2.64	1.24	2.02	0.78	1.43
2007	1.20	1.87	2.59	1.21	1.96	0.76	1.47
2008	1.18	1.82	2.56	1.19	1.95	0.74	1.58
2009	1.21	1.79	2.58	1.21	1.91	0.70	1.54

SSM/I F13 – TMI Intercalibration Differences

Full data record (Jan 1998 – Nov 2009)

Year	19v	19h	22v	37v	37h	85v	85h
ERA-I	1.19	2.00	2.55	1.20	2.15	0.78	1.44
Merra	1.18	2.00	2.51	1.20	2.16	0.77	1.44
OptEst	1.11	2.02	1.90	1.01	2.04	0.70	1.38

Post-Boost Data Record (Sep 2001 – Nov 2009)

Year	19v	19h	22v	37v	37h	85v	85h
ERA-I	1.20	1.92	2.59	1.21	2.06	0.77	1.45
Merra	1.19	1.92	2.55	1.21	2.08	0.75	1.45
OptEst	1.15	1.88	1.83	1.14	1.99	0.75	1.40

SSM/I F13 vs. TMI Intercalibration Differences

Temp	19v	19h	22v	37v	37h	85v	85h
115	-	2.3	-	-	-	-	-
125	-	2.1	-	-	-	-	-
135	-	1.9	-	-	2.1	-	-
145	-	1.8	-	-	2.0	-	-
155	-	1.7	-	-	2.1	-	-
165	-	1.7	-	-	2.1	-	-
175	-	-	-	-	2.1	-	-
185	1.3	-	-	-	-	-	-
195	1.2	-	1.3	-	-	-	1.1
205	1.2	-	2.5	1.2	-	-	1.2
215	1.2	-	2.5	1.2	-	-	1.3
225	-	-	2.6	1.3	-	-	1.4
235	-	-	2.7	-	-	-	1.5
245	-	-	2.7	-	-	0.7	1.6
255	-	-	-	-	-	0.7	1.6
265	-	-	-	-	-	0.8	1.5
275	-	-	-	-	-	0.8	-
ERA-I	1.2	1.9	2.6	1.2	2.1	0.8	1.5
Merra	1.2	1.9	2.6	1.2	2.1	0.8	1.5
OptEst	1.2	1.9	1.8	1.1	2.0	0.8	1.4

