

P3-v5.3.13

HRDPS validation in GEM5.3.10-a10 and PA3a configuration

Winter (40 cases) and summer (42 cases) 2022 series

v5.3.12 vs. v5.3.13

Note: Lookup table 1 for v5.3.13 are the same as for v5.4.3, it just reads in a few more dummy (columns) that are used for full3mom and prognostic aerosols.

Difference

- Bugfix to collection rates in all lookup tables.
- New lookup table version:
 - LT1: from 6.6-2moml, 6.6-3moml to 6.9-2moml and 6.9-3moml
 - LT2: from 6.1 to 6.2 (only bug for collection rates)

History of LT1:

6.6 → for P3v5.3.6 to P3v5.3.12

6.7 → includes full3mom new columns

6.8 → bugfix for m6shd (full3mom) NaNs, also added 2 new columns for prognostic aerosols

6.9 → bugfix for collection rates

Note: only winter 2022 (40 cases) is shown because changes were very small.

winter

Timing v5.3.12

HRnat_530a10_P3v5312_2022010100_M_4460116.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5763.9681 seconds (14.14 ms logging)
HRnat_530a10_P3v5312_2022010212_M_4460096.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5819.0732 seconds (13.85 ms logging)
HRnat_530a10_P3v5312_2022010400_M_4460078.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 6066.9926 seconds (13.94 ms logging)
HRnat_530a10_P3v5312_2022010512_M_4460129.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5880.7632 seconds (13.82 ms logging)
HRnat_530a10_P3v5312_2022010700_M_4460131.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5860.8474 seconds (13.54 ms logging)
HRnat_530a10_P3v5312_2022010812_M_4460094.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5666.5587 seconds (13.76 ms logging)
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HRnat_530a10_P3v5312_2022011112_M_4460126.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5690.5429 seconds (14.21 ms logging)
HRnat_530a10_P3v5312_2022011300_M_4460127.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5759.0225 seconds (13.73 ms logging)
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HRnat_530a10_P3v5312_2022011600_M_4460118.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5686.9297 seconds (13.65 ms logging)
HRnat_530a10_P3v5312_2022011712_M_4460091.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5938.9693 seconds (13.63 ms logging)
HRnat_530a10_P3v5312_2022011900_M_4460092.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5617.9270 seconds (13.87 ms logging)
HRnat_530a10_P3v5312_2022012012_M_4460097.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5673.4847 seconds (13.89 ms logging)
HRnat_530a10_P3v5312_2022012200_M_4460095.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5667.5945 seconds (13.67 ms logging)
HRnat_530a10_P3v5312_2022012312_M_4460101.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5750.1226 seconds (13.42 ms logging)
HRnat_530a10_P3v5312_2022012500_M_4460120.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5576.6843 seconds (13.86 ms logging)
HRnat_530a10_P3v5312_2022012612_M_4460128.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5604.0016 seconds (15.98 ms logging)
HRnat_530a10_P3v5312_2022012800_M_4460099.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5649.0058 seconds (13.61 ms logging)
HRnat_530a10_P3v5312_2022012912_M_4460113.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 6126.0723 seconds (13.75 ms logging)
HRnat_530a10_P3v5312_2022013100_M_4460572.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5450.5841 seconds (13.74 ms logging)
HRnat_530a10_P3v5312_2022020112_M_4460574.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5502.7478 seconds (13.62 ms logging)
HRnat_530a10_P3v5312_2022020300_M_4460577.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5608.7358 seconds (14.01 ms logging)
HRnat_530a10_P3v5312_2022020412_M_4460581.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5668.0327 seconds (13.56 ms logging)
HRnat_530a10_P3v5312_2022020600_M_4460597.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5615.1923 seconds (13.51 ms logging)
HRnat_530a10_P3v5312_2022020712_M_4460604.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5600.6923 seconds (13.97 ms logging)
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HRnat_530a10_P3v5312_2022021612_M_4460623.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5581.7122 seconds (13.96 ms logging)
HRnat_530a10_P3v5312_2022021800_M_4460630.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5677.9798 seconds (13.74 ms logging)
HRnat_530a10_P3v5312_2022021912_M_4460629.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5657.4381 seconds (13.82 ms logging)
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HRnat_530a10_P3v5312_2022022212_M_4460639.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5590.4960 seconds (14.34 ms logging)
HRnat_530a10_P3v5312_2022022400_M_4460640.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5587.9235 seconds (14.12 ms logging)
HRnat_530a10_P3v5312_2022022512_M_4460644.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5579.3092 seconds (13.89 ms logging)
HRnat_530a10_P3v5312_2022022700_M_4460647.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5519.0594 seconds (13.68 ms logging)
HRnat_530a10_P3v5312_2022022812_M_4460645.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5628.6587 seconds (13.77 ms logging)

Mean (2MOM_noLF_n1):
221111/40 = 5527 seconds

Timing v5.3.13

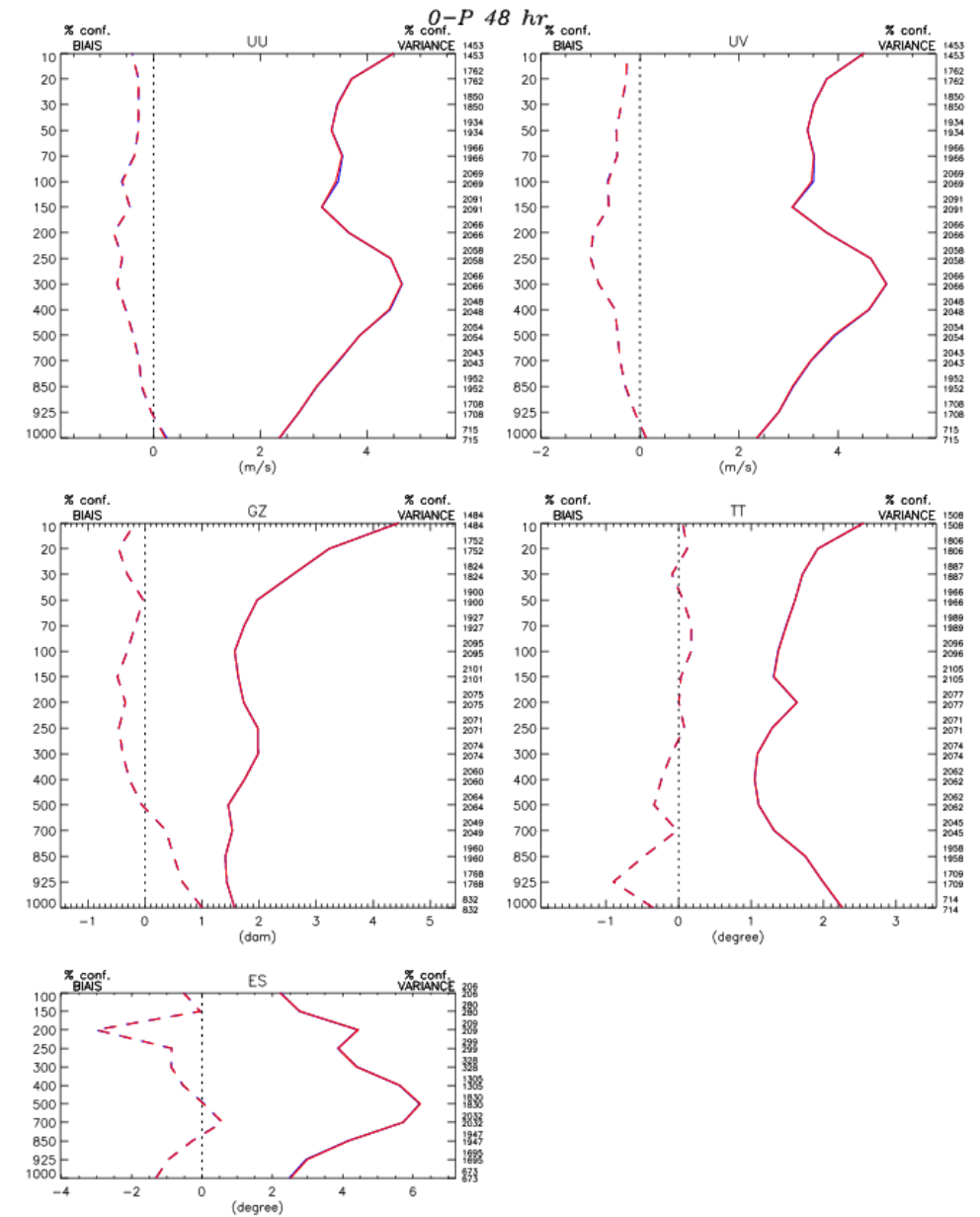
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HRnat_530a10_P35313T_2022010700_M_4528753.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5689.7638 seconds (13.49 ms logging)
HRnat_530a10_P35313T_2022010812_M_4528732.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5545.0855 seconds (13.62 ms logging)
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HRnat_530a10_P35313T_2022011112_M_4528760.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5482.2256 seconds (13.60 ms logging)
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HRnat_530a10_P35313T_2022011900_M_4528772.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5515.2706 seconds (13.97 ms logging)
HRnat_530a10_P35313T_2022012012_M_4528749.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5530.6225 seconds (13.66 ms logging)
HRnat_530a10_P35313T_2022012200_M_4528744.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5550.3684 seconds (13.88 ms logging)
HRnat_530a10_P35313T_2022012312_M_4528771.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5428.5591 seconds (14.09 ms logging)
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HRnat_530a10_P35313T_2022012612_M_4528729.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5444.5608 seconds (13.65 ms logging)
HRnat_530a10_P35313T_2022012800_M_4528780.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5574.4600 seconds (13.41 ms logging)
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HRnat_530a10_P35313T_2022020600_M_4529168.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5491.9851 seconds (14.23 ms logging)
HRnat_530a10_P35313T_2022020712_M_4529167.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5485.8368 seconds (13.52 ms logging)
HRnat_530a10_P35313T_2022020900_M_4529165.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5555.7424 seconds (13.67 ms logging)
HRnat_530a10_P35313T_2022021012_M_4529170.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5386.0668 seconds (13.94 ms logging)
HRnat_530a10_P35313T_2022021200_M_4529171.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5374.7710 seconds (13.89 ms logging)
HRnat_530a10_P35313T_2022021312_M_4529169.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5526.7886 seconds (13.53 ms logging)
HRnat_530a10_P35313T_2022021500_M_4529175.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5419.7554 seconds (14.11 ms logging)
HRnat_530a10_P35313T_2022021612_M_4529173.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5496.8354 seconds (13.64 ms logging)
HRnat_530a10_P35313T_2022021800_M_4529177.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5636.6898 seconds (13.70 ms logging)
HRnat_530a10_P35313T_2022021912_M_4529178.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5543.5745 seconds (13.71 ms logging)
HRnat_530a10_P35313T_2022022100_M_4529183.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5425.1493 seconds (13.56 ms logging)
HRnat_530a10_P35313T_2022022212_M_4529181.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5494.9121 seconds (13.80 ms logging)
HRnat_530a10_P35313T_2022022400_M_4529184.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5517.2154 seconds (13.67 ms logging)
HRnat_530a10_P35313T_2022022512_M_4529180.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5442.1864 seconds (13.66 ms logging)
HRnat_530a10_P35313T_2022022700_M_4529187.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5477.2324 seconds (14.03 ms logging)
HRnat_530a10_P35313T_2022022812_M_4529189.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5474.7376 seconds (13.74 ms logging)

Mean (2MOM_noLF_n1):

220821/40 = 5520 seconds (-0.13%)

Scores v5.3.12 vs. 5.3.13

- Arcad → completely neutral

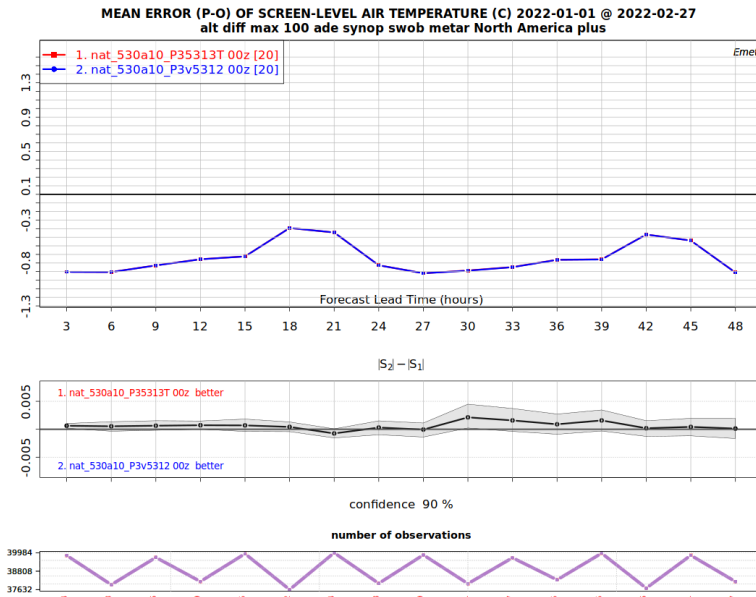


◇ — E-T m_wa_530a10_P3v5312_2022010100.2022022812 (40)
 □ - - - BIAIS m_wa_530a10_P3v5312_2022010100.2022022812
 ◇ — E-T m_wa_530a10_P35313T_2022010100.2022022812 (40)
 □ - - - BIAIS m_wa_530a10_P35313T_2022010100.2022022812

Type : 0-P 48 hr
 Region : Amerique du Nord plus
 Lat-lon: (25N, 170W) (85N, 40W)
 Stat. inversees

Scores v5.3.12 vs. 5.3.13

- Emet TT, TD, UV, P0 neutral



bias		
nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z		
All		
Appalachia CLIM	TD	0.0
	TT	0.0
Arctic All CLIM	TD	0.0
	TT	-0.00052
Arctic Land CLIM	TD	0.0
	TT	-0.00053
Boreal CLIM	TD	-0.00038
	TT	9.8e-05
Canada	TD	6.8e-05
	TT	-0.00015
Central CLIM	TD	6.6e-05
	TT	0.00053
Great Lakes CLIM	TD	0.0
	TT	0.00042
MidAtlantic CLIM	TD	5.5e-06
	TT	-0.00082
Mt West CLIM	TD	0.0
	TT	0.0
North America plus	TD	0.00022
	TT	0.00022
North Atlantic CLIM	TD	0.00013
	TT	0.00027
North Plains CLIM	TD	0.0
	TT	0.00041
Pacific North West CLIM	TD	-0.002
	TT	0.0
Prairie CLIM	TD	0.0011
	TT	0.00056

rmse		
nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z		
All		
Appalachia CLIM	TD	-0.00052
	TT	0.0
Arctic All CLIM	TD	0.0
	TT	0.0
Arctic Land CLIM	TD	0.00086
	TT	0.00088
Boreal CLIM	TD	0.00011
	TT	-0.0001
Canada	TD	0.00036
	TT	0.0
Central CLIM	TD	0.00025
	TT	0.00025
Great Lakes CLIM	TD	0.00014
	TT	0.00047
MidAtlantic CLIM	TD	0.00027
	TT	0.0
Mt West CLIM	TD	0.0
	TT	0.0
North America plus	TD	0.0
	TT	0.0
North Atlantic CLIM	TD	0.0
	TT	0.0
North Plains CLIM	TD	-0.00012
	TT	-3.4e-05
Pacific North West CLIM	TD	-0.00037
	TT	-0.0009
Prairie CLIM	TD	0.00056
	TT	0.00015

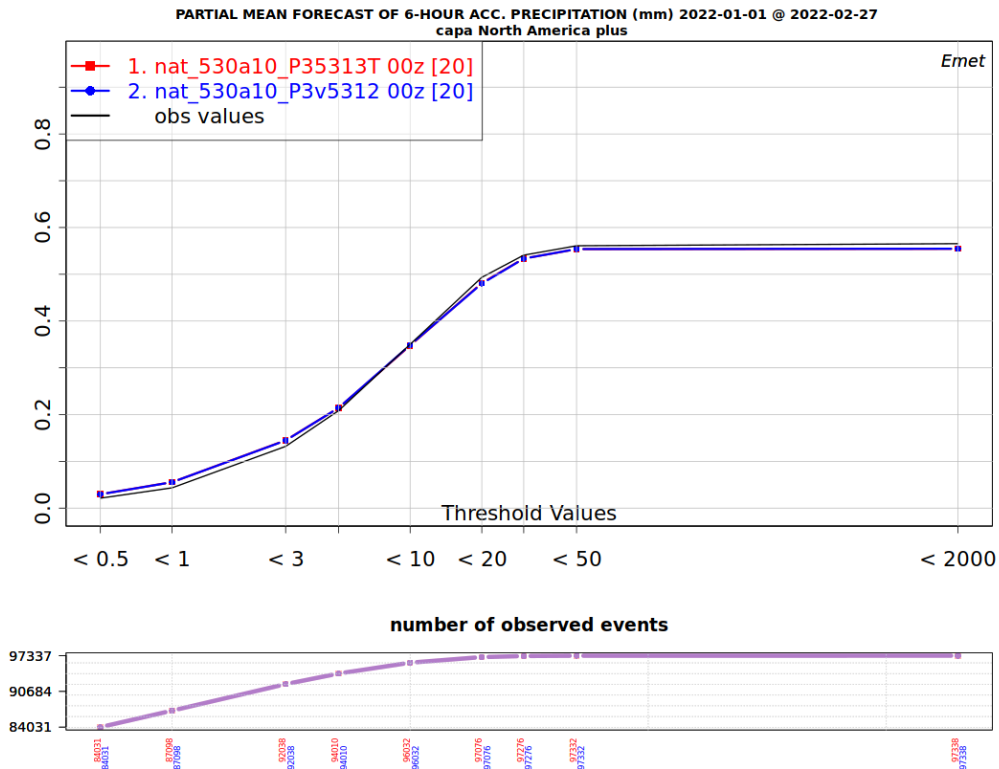
stdev		
nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z		
All		
Appalachia CLIM	TD	-0.00023
	TT	0.00014
Arctic All CLIM	TD	0.00095
	TT	0.0011
Arctic Land CLIM	TD	0.0012
	TT	0.00096
Boreal CLIM	TD	0.00014
	TT	0.00011
Canada	TD	0.00046
	TT	0.0
Central CLIM	TD	0.00018
	TT	0.00021
Great Lakes CLIM	TD	0.00048
	TT	-3.1e-05
MidAtlantic CLIM	TD	0.00025
	TT	0.0
Mt West CLIM	TD	0.0
	TT	0.0
North America plus	TD	6.4e-05
	TT	6.7e-05
North Atlantic CLIM	TD	0.0
	TT	0.0
North Plains CLIM	TD	0.0
	TT	-0.00011
Pacific North West CLIM	TD	-0.0006
	TT	-0.00082
Prairie CLIM	TD	0.00055
	TT	1e-05

bias		
nat_530a10_P3v5313 00z / nat_530a10_P3v5312 00z		
All		
Appalachia CLIM	P0	-0.0026
Arctic All CLIM	P0	-0.00052
Arctic Land CLIM	P0	0.0
Boreal CLIM	P0	-0.0016
Canada	P0	-0.0032
Central CLIM	P0	-0.0026
Central Plains CLIM	P0	0.0
Great Lakes CLIM	P0	-0.00089
MidAtlantic CLIM	P0	-0.0022
Mt West CLIM	P0	-0.004
North America plus	P0	-0.0037
North Atlantic CLIM	P0	-0.0033
North Plains CLIM	P0	-0.0021
Pacific North West CLIM	P0	0.0013
Prairie CLIM	P0	0.0

bias		
nat_530a10_P3v5313 00z / nat_530a10_P3v5312 00z		
All		
Appalachia CLIM	UV	0.0
Arctic All CLIM	UV	-0.0012
Arctic Land CLIM	UV	-0.00076
Boreal CLIM	UV	0.0
Canada	UV	-0.0007
Central CLIM	UV	-0.00035
Central Plains CLIM	UV	-0.0026
Great Lakes CLIM	UV	-2.5e-05
MidAtlantic CLIM	UV	0.0023
Mt West CLIM	UV	0.0026
North America plus	UV	-7e-05
North Atlantic CLIM	UV	0.00089
North Plains CLIM	UV	-9.1e-05
Pacific North West CLIM	UV	0.0
Prairie CLIM	UV	0.00097

Scores v5.3.12 vs. v5.3.13

- Emet (PR6 and PR24)

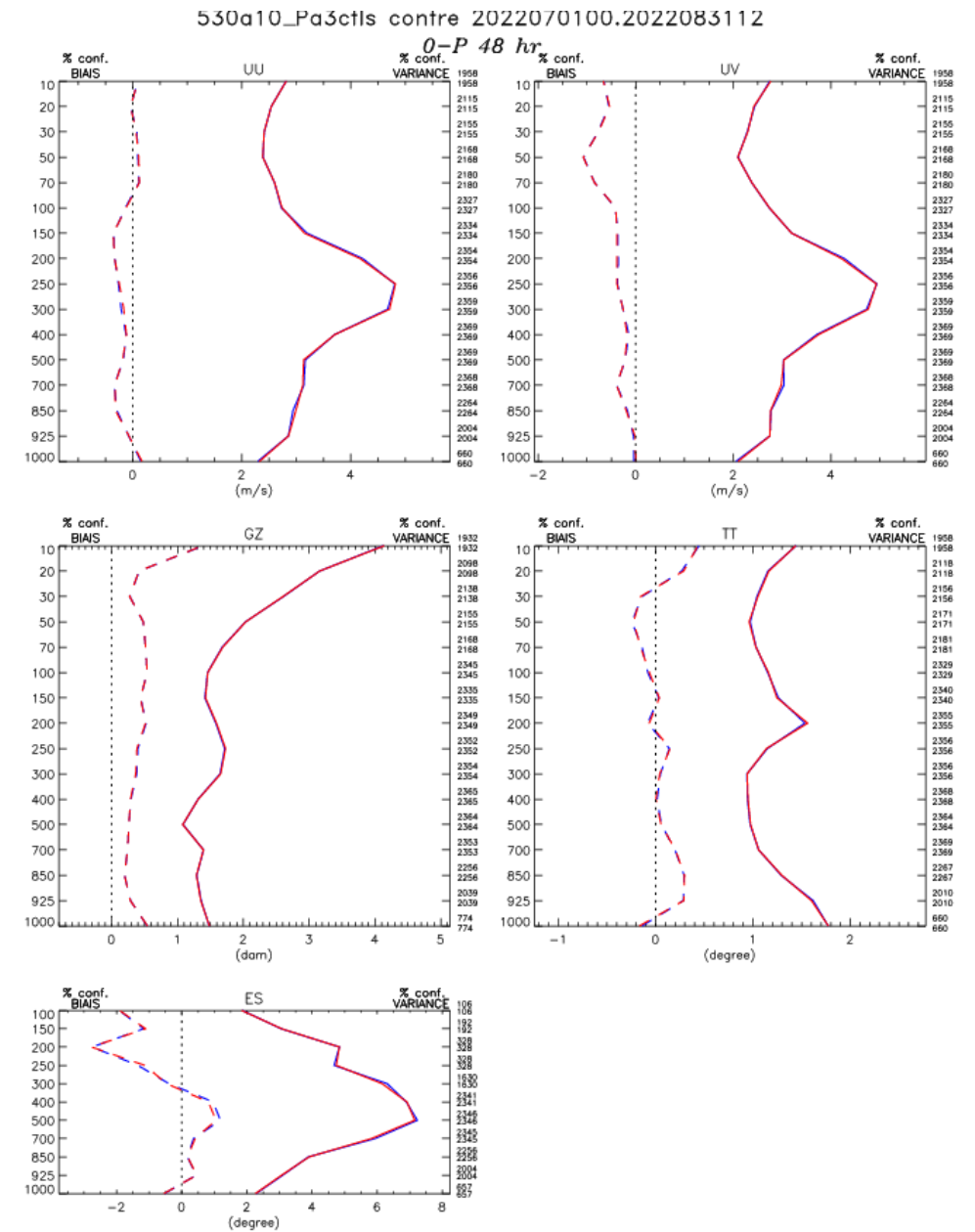


ets			fbi			far			pod		
nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z			nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z			nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z			nat_530a10_P35313T 00z / nat_530a10_P3v5312 00z		

summer

Scores v5.3.6 vs. 5.3.13

- Arcad → completely neutral

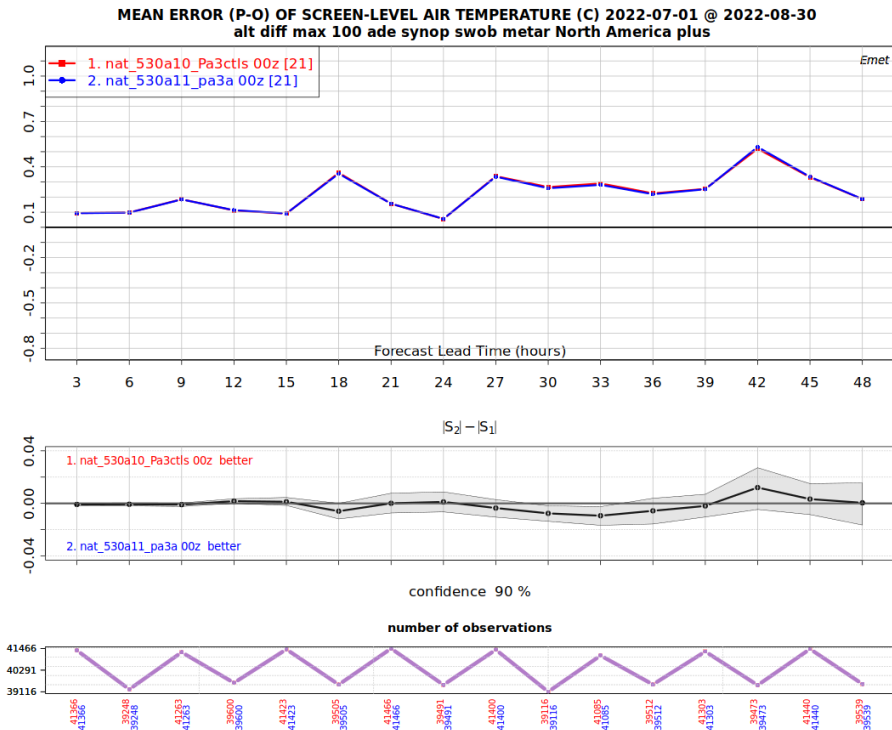


◇ E-T m_uo_530a11_pa3a_2022070100.2022083112 (42)
 □ BIAS m_uo_530a11_pa3a_2022070100.2022083112
 ◇ E-T m_uo_530a10_Pa3ctls_2022070100.2022083112 (42)
 □ BIAS m_uo_530a10_Pa3ctls_2022070100.2022083112

Type : 0-P 48 hr
 Region : Amerique du Nord plus
 Lat-lon: (25N, 170W) (85N, 40W)
 Stat. inversees

Scores v5.3.6 vs. 5.3.13

- Emet TT, TD, UV, P0
- Very small differences



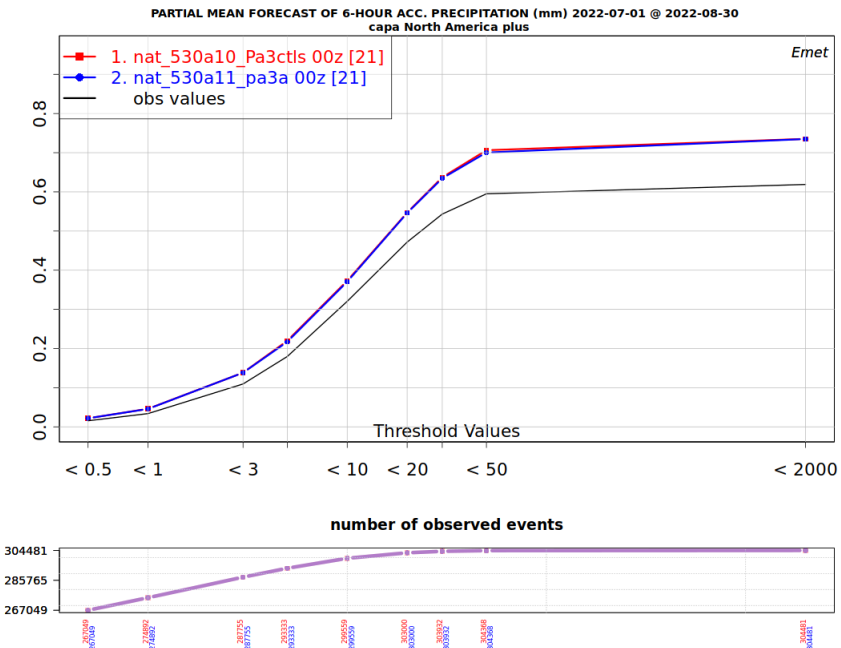
bias			rmse			stdev		
nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z			nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z			nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		
All			All			All		
Appalachia CLIM	TD	-0.0044	Appalachia CLIM	TD	0.0042	Appalachia CLIM	TD	0.006
Arctic All CLIM	TT	-0.0039	Arctic All CLIM	TT	0.0013	Arctic All CLIM	TT	0.0
Arctic Land CLIM	TD	-0.00062	Arctic Land CLIM	TD	-0.0033	Arctic Land CLIM	TD	-0.0037
Arctic Land CLIM	TT	0.0	Arctic Land CLIM	TT	0.0	Arctic Land CLIM	TT	0.0
Boreal CLIM	TD	-0.0012	Boreal CLIM	TD	-0.0049	Boreal CLIM	TD	-0.0046
Boreal CLIM	TT	0.0	Boreal CLIM	TT	0.0	Boreal CLIM	TT	0.0
Canada	TD	-0.0022	Canada	TD	0.0011	Canada	TD	0.0012
Canada	TT	0.00042	Canada	TT	0.0	Canada	TT	-0.002
Central CLIM	TD	0.0013	Central CLIM	TD	0.0018	Central CLIM	TD	0.0007
Central CLIM	TT	0.0	Central CLIM	TT	-0.0012	Central CLIM	TT	0.00075
Central Plains CLIM	TD	-0.0033	Central Plains CLIM	TD	-0.0003	Central Plains CLIM	TD	0.00075
Central Plains CLIM	TT	-0.00079	Central Plains CLIM	TT	0.0076	Central Plains CLIM	TT	0.0099
Great Lakes CLIM	TD	-0.0048	Great Lakes CLIM	TD	0.0	Great Lakes CLIM	TD	0.0
Great Lakes CLIM	TT	0.0	Great Lakes CLIM	TT	0.0014	Great Lakes CLIM	TT	0.0028
MidAtlantic CLIM	TD	0.0	MidAtlantic CLIM	TD	0.0013	MidAtlantic CLIM	TD	0.0015
MidAtlantic CLIM	TT	0.0061	MidAtlantic CLIM	TT	0.0	MidAtlantic CLIM	TT	0.0
Mt West CLIM	TD	0.0041	Mt West CLIM	TD	-0.0042	Mt West CLIM	TD	0.0
Mt West CLIM	TT	0.00018	Mt West CLIM	TT	0.00018	Mt West CLIM	TT	-0.00046
North America plus	TD	0.0014	North America plus	TD	0.00013	North America plus	TD	7.5e-05
North America plus	TT	-0.0013	North America plus	TT	0.00029	North America plus	TT	0.0003
North Atlantic CLIM	TD	0.0012	North Atlantic CLIM	TD	0.0	North Atlantic CLIM	TD	0.0
North Atlantic CLIM	TT	0.0027	North Atlantic CLIM	TT	-0.00057	North Atlantic CLIM	TT	-0.0026
North Plains CLIM	TD	-0.00032	North Plains CLIM	TD	0.0014	North Plains CLIM	TD	0.0011
North Plains CLIM	TT	0.0	North Plains CLIM	TT	0.0017	North Plains CLIM	TT	0.0016
Pacific North West CLIM	TD	0.0	Pacific North West CLIM	TD	0.0	Pacific North West CLIM	TD	0.0
Pacific North West CLIM	TT	0.0	Pacific North West CLIM	TT	0.0	Pacific North West CLIM	TT	0.0
Prairie CLIM	TD	0.0041	Prairie CLIM	TD	0.0018	Prairie CLIM	TD	-8.2e-05
Prairie CLIM	TT	-0.0057	Prairie CLIM	TT	-0.0025	Prairie CLIM	TT	-0.00013

bias		
nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		
All		
Appalachia CLIM	PO	0.003
Arctic All CLIM	PO	0.00045
Arctic Land CLIM	PO	0.00071
Boreal CLIM	PO	0.00037
Canada	PO	0.00021
Central CLIM	PO	-0.00049
Central Plains CLIM	PO	0.0
Great Lakes CLIM	PO	0.00018
MidAtlantic CLIM	PO	-0.0014
Mt West CLIM	PO	0.0
North America plus	PO	0.0002
North Atlantic CLIM	PO	0.0011
North Plains CLIM	PO	0.0001
Pacific North West CLIM	PO	-0.00076
Prairie CLIM	PO	0.0

bias		
nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		
All		
Appalachia CLIM	UV	0.0032
Arctic All CLIM	UV	0.0
Arctic Land CLIM	UV	0.0
Boreal CLIM	UV	-0.005
Canada	UV	0.0
Central CLIM	UV	1.6e-05
Central Plains CLIM	UV	0.012
Great Lakes CLIM	UV	-0.0011
MidAtlantic CLIM	UV	0.0
Mt West CLIM	UV	0.0
North America plus	UV	9.6e-05
North Atlantic CLIM	UV	0.00014
North Plains CLIM	UV	0.0
Pacific North West CLIM	UV	0.0
Prairie CLIM	UV	0.0013

Scores v5.3.6 vs. v5.3.13

- Emet (PR6 and PR24)



pmean		<	>
pmean nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		20220701 / 20220831	
		All	
Appalachia CLIM	PR24	0.0	
	PR6	0.0	
Arctic All CLIM	PR24	0.018	
	PR6	0.0062	
Arctic Land CLIM	PR24	0.025	
	PR6	0.0086	
Boreal CLIM	PR24	-0.022	
	PR6	0.0	
Canada	PR24	-0.028	
	PR6	-0.03	
Central CLIM	PR24	0.0	
	PR6	0.0	
Central Plains CLIM	PR24	0.0	
	PR6	-0.025	
Great Lakes CLIM	PR24	0.0045	
	PR6	0.0033	
MidAtlantic CLIM	PR24	0.0	
	PR6	0.0	
Mt West CLIM	PR24	0.0	
	PR6	0.0	
North America plus	PR24	0.0	
	PR6	0.031	
North Atlantic CLIM	PR24	0.0	
	PR6	0.0	
North Plains CLIM	PR24	0.0	
	PR6	-0.02	
Pacific North West CLIM	PR24	0.0	
	PR6	0.0	
Prairie CLIM	PR24	0.0	
	PR6	0.12	

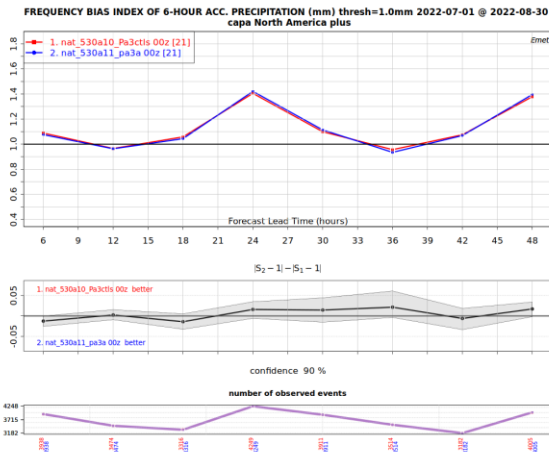
ets		20220701 / 20220831
nat_530a10_pa3ctls 00z / nat_530a11_pa3a 00z		All
Appalachia CLIM	PR24	0.0051
	PR6	0.0
Arctic All CLIM	PR24	0.0012
	PR6	-0.0013
Arctic Land CLIM	PR24	0.007
	PR6	-0.002
Boreal CLIM	PR24	0.0
	PR6	-0.00088
Canada	PR24	0.0
	PR6	0.0054
Central CLIM	PR24	0.0
	PR6	0.0
Central Plains CLIM	PR24	0.0
	PR6	0.0
Great Lakes CLIM	PR24	-0.0026
	PR6	0.0
MidAtlantic CLIM	PR24	-0.0019
	PR6	-0.0025
Mt West CLIM	PR24	0.0024
	PR6	0.0089
North America plus	PR24	0.00045
	PR6	0.0
North Atlantic CLIM	PR24	-0.00078
	PR6	-0.011
North Plains CLIM	PR24	0.0
	PR6	0.0053
Pacific North West CLIM	PR24	0.00048
	PR6	0.0
Prairie CLIM	PR24	-0.0036
	PR6	0.0

far		<	>
far nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		20220701 / 20220831	
		All	
Appalachia CLIM	PR24	0.0039	
	PR6	0.0	
Arctic All CLIM	PR24	0.0098	
	PR6	-0.0011	
Arctic Land CLIM	PR24	0.0081	
	PR6	-0.0016	
Boreal CLIM	PR24	0.0	
	PR6	-0.0012	
Canada	PR24	0.0	
	PR6	0.013	
Central CLIM	PR24	0.0	
	PR6	0.0	
Central Plains CLIM	PR24	0.0	
	PR6	0.0	
Great Lakes CLIM	PR24	0.0062	
	PR6	0.0	
MidAtlantic CLIM	PR24	-0.0019	
	PR6	-0.0039	
Mt West CLIM	PR24	0.0016	
	PR6	0.0083	
North America plus	PR24	0.0015	
	PR6	0.0028	
North Atlantic CLIM	PR24	-0.0024	
	PR6	-0.017	
North Plains CLIM	PR24	0.0	
	PR6	0.011	
Pacific North West CLIM	PR24	1.7e-05	
	PR6	0.0	
Prairie CLIM	PR24	0.0	
	PR6	0.0	

pod		<	>
pod nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		20220701 / 20220831	
		All	
Appalachia CLIM	PR24	0.0068	
	PR6	0.0	
Arctic All CLIM	PR24	-0.011	
	PR6	-0.011	
Arctic Land CLIM	PR24	0.004	
	PR6	-0.0095	
Boreal CLIM	PR24	0.0	
	PR6	0.0048	
Canada	PR24	0.0	
	PR6	0.0082	
Central CLIM	PR24	0.0	
	PR6	0.0	
Central Plains CLIM	PR24	0.0	
	PR6	0.0	
Great Lakes CLIM	PR24	0.0041	
	PR6	0.0	
MidAtlantic CLIM	PR24	0.0078	
	PR6	-0.0045	
Mt West CLIM	PR24	0.012	
	PR6	0.0	
North America plus	PR24	0.0	
	PR6	0.0	
North Atlantic CLIM	PR24	-0.0065	
	PR6	-0.0047	
North Plains CLIM	PR24	0.032	
	PR6	0.0089	
Pacific North West CLIM	PR24	0.0	
	PR6	0.0	
Prairie CLIM	PR24	-0.0047	
	PR6	0.0	

Scores v5.3.6 vs. v5.3.13

- FBI



fbi1		<	>
fbi1 nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		20220701 / 20220831	
		All	
Appalachia CLIM	PR6	-0.0092	
Arctic All CLIM	PR6	0.0081	
Arctic Land CLIM	PR6	0.0081	
Boreal CLIM	PR6	-0.0018	
Canada	PR6	-0.0025	
Central CLIM	PR6	0.0083	
Central Plains CLIM	PR6	0.017	
Great Lakes CLIM	PR6	0.035	
MidAtlantic CLIM	PR6	0.0	
Mt West CLIM	PR6	-0.02	
North America plus	PR6	-0.0016	
North Atlantic CLIM	PR6	0.0063	
North Plains CLIM	PR6	0.0	
Pacific North West CLIM	PR6	0.0	
Prairie CLIM	PR6	0.0	

fbi2

<div>fbi2</div> <div>nat_530a10_Pa3ctls00z / nat_530a11_pa3a00z</div>		<div>20220701 / 20220831</div> <div>All</div>
Appalachia CLIM	PR6	0.029
Arctic All CLIM	PR6	0.0097
Arctic Land CLIM	PR6	0.012
Boreal CLIM	PR6	-0.007
Canada	PR6	0.0
Central CLIM	PR6	0.0
Central Plains CLIM	PR6	0.0
Great Lakes CLIM	PR6	0.011
MidAtlantic CLIM	PR6	0.0
Mt West CLIM	PR6	0.011
North America plus	PR6	0.0034
North Atlantic CLIM	PR6	-0.016
North Plains CLIM	PR6	0.0
Pacific North West CLIM	PR6	-0.0054
Prairie CLIM	PR6	0.0077

fbi5

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<div>fbi5</div> <div>nat_530a10_Pa3ctls00z / nat_530a11_pa3a00z</div>		<div>20220701 / 20220831</div> <div>All</div>
Appalachia CLIM	PR6	0.05
Arctic All CLIM	PR6	0.011
Arctic Land CLIM	PR6	0.039
Boreal CLIM	PR6	0.0035
Canada	PR6	0.0076
Central CLIM	PR6	0.0
Central Plains CLIM	PR6	0.0
Great Lakes CLIM	PR6	0.0065
MidAtlantic CLIM	PR6	0.013
Mt West CLIM	PR6	-0.0031
North America plus	PR6	0.0058
North Atlantic CLIM	PR6	-0.026
North Plains CLIM	PR6	0.0
Pacific North West CLIM	PR6	0.0
Prairie CLIM	PR6	-0.0042

fbi10

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>

fbi10 nat_530a10_Pa3ctls 00z / nat_530a11_pa3a 00z		20220701 / 20220831
		All
Appalachia CLIM	PR6	0.0
Arctic All CLIM	PR6	0.054
Arctic Land CLIM	PR6	0.028
Boreal CLIM	PR6	-0.046
Canada	PR6	-0.024
Central CLIM	PR6	-0.034
Central Plains CLIM	PR6	-0.14
Great Lakes CLIM	PR6	-0.021
MidAtlantic CLIM	PR6	0.0
Mt West CLIM	PR6	0.0
North America plus	PR6	-0.025
North Atlantic CLIM	PR6	0.0
North Plains CLIM	PR6	0.0
Pacific North West CLIM	PR6	-0.093
Prairie CLIM	PR6	0.0

Timing v5.3.13 control for v5.3.14

HRnat_530a10_Pa3ctl5_2022070100_M_4582992.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5566.3472 seconds (13.85 ms logging)
HRnat_530a10_Pa3ctl5_2022070212_M_4582984.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5598.5447 seconds (13.43 ms logging)
HRnat_530a10_Pa3ctl5_2022070400_M_4582966.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5647.2154 seconds (13.71 ms logging)
HRnat_530a10_Pa3ctl5_2022070512_M_4583000.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5686.2003 seconds (13.56 ms logging)
HRnat_530a10_Pa3ctl5_2022070700_M_4583011.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5656.3555 seconds (13.56 ms logging)
HRnat_530a10_Pa3ctl5_2022070812_M_4583010.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5722.5522 seconds (13.40 ms logging)
HRnat_530a10_Pa3ctl5_2022071000_M_4582996.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5681.1729 seconds (13.57 ms logging)
HRnat_530a10_Pa3ctl5_2022071112_M_4582989.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5598.0317 seconds (13.56 ms logging)
HRnat_530a10_Pa3ctl5_2022071300_M_4582994.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5591.5255 seconds (13.68 ms logging)
HRnat_530a10_Pa3ctl5_2022071412_M_4582987.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5596.7476 seconds (13.65 ms logging)
HRnat_530a10_Pa3ctl5_2022071600_M_4583012.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5593.1546 seconds (13.72 ms logging)
HRnat_530a10_Pa3ctl5_2022071712_M_4583016.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5595.9422 seconds (13.50 ms logging)
HRnat_530a10_Pa3ctl5_2022071900_M_4582985.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5651.1927 seconds (13.40 ms logging)
HRnat_530a10_Pa3ctl5_2022072012_M_4583009.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5490.5867 seconds (13.60 ms logging)
HRnat_530a10_Pa3ctl5_2022072200_M_4583014.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5519.1458 seconds (13.84 ms logging)
HRnat_530a10_Pa3ctl5_2022072312_M_4583005.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5606.4022 seconds (13.43 ms logging)
HRnat_530a10_Pa3ctl5_2022072500_M_4583004.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5618.2809 seconds (13.85 ms logging)
HRnat_530a10_Pa3ctl5_2022072612_M_4582988.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5590.9695 seconds (13.90 ms logging)
HRnat_530a10_Pa3ctl5_2022072800_M_4583013.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5539.3442 seconds (13.45 ms logging)
HRnat_530a10_Pa3ctl5_2022072912_M_4582999.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5554.5525 seconds (13.71 ms logging)
HRnat_530a10_Pa3ctl5_2022073100_M_4583647.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5596.2898 seconds (13.34 ms logging)
HRnat_530a10_Pa3ctl5_2022080112_M_4583648.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5591.9851 seconds (13.69 ms logging)
HRnat_530a10_Pa3ctl5_2022080300_M_4583652.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5635.1617 seconds (13.87 ms logging)
HRnat_530a10_Pa3ctl5_2022080412_M_4583645.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5652.3158 seconds (13.34 ms logging)
HRnat_530a10_Pa3ctl5_2022080600_M_4583651.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5632.5590 seconds (13.70 ms logging)
HRnat_530a10_Pa3ctl5_2022080712_M_4583660.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5615.1978 seconds (13.74 ms logging)
HRnat_530a10_Pa3ctl5_2022080900_M_4583654.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5552.5437 seconds (13.73 ms logging)
HRnat_530a10_Pa3ctl5_2022081012_M_4583680.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5542.9899 seconds (13.69 ms logging)
HRnat_530a10_Pa3ctl5_2022081200_M_4583696.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5528.5475 seconds (13.64 ms logging)
HRnat_530a10_Pa3ctl5_2022081312_M_4583714.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5610.3968 seconds (13.33 ms logging)
HRnat_530a10_Pa3ctl5_2022081500_M_4583706.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5630.2268 seconds (13.57 ms logging)
HRnat_530a10_Pa3ctl5_2022081612_M_4583745.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5667.8040 seconds (13.78 ms logging)
HRnat_530a10_Pa3ctl5_2022081800_M_4583740.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5564.8270 seconds (13.74 ms logging)
HRnat_530a10_Pa3ctl5_2022081912_M_4583747.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5517.3753 seconds (13.46 ms logging)
HRnat_530a10_Pa3ctl5_2022082100_M_4583779.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5538.6323 seconds (13.34 ms logging)
HRnat_530a10_Pa3ctl5_2022082212_M_4583776.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5597.8056 seconds (13.89 ms logging)
HRnat_530a10_Pa3ctl5_2022082400_M_4583749.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5583.0686 seconds (13.56 ms logging)
HRnat_530a10_Pa3ctl5_2022082512_M_4583743.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5564.9892 seconds (13.51 ms logging)
HRnat_530a10_Pa3ctl5_2022082700_M_4583775.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5551.3104 seconds (13.58 ms logging)
HRnat_530a10_Pa3ctl5_2022082812_M_4583811.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5630.6916 seconds (13.45 ms logging)
HRnat_530a10_Pa3ctl5_2022083000_M_4585193.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5623.1600 seconds (13.43 ms logging)
HRnat_530a10_Pa3ctl5_2022083112_M_4585294.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5559.1589 seconds (13.96 ms logging)

Mean (2MOM_noLF_n1):
235072/42 = 5597 seconds

Timing v5.3.13

HRnat_530a10_P5313Ts_2022070100_M_4588567.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5580.4130 seconds (13.46 ms logging)
HRnat_530a10_P5313Ts_2022070212_M_4588552.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5590.0552 seconds (13.24 ms logging)
HRnat_530a10_P5313Ts_2022070400_M_4588572.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5618.6224 seconds (13.64 ms logging)
HRnat_530a10_P5313Ts_2022070512_M_4588556.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5646.8599 seconds (13.29 ms logging)
HRnat_530a10_P5313Ts_2022070700_M_4588578.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5654.4216 seconds (13.72 ms logging)
HRnat_530a10_P5313Ts_2022070812_M_4588561.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5664.8992 seconds (13.70 ms logging)
HRnat_530a10_P5313Ts_2022071000_M_4588582.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5662.4137 seconds (13.48 ms logging)
HRnat_530a10_P5313Ts_2022071112_M_4588560.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5599.6365 seconds (13.44 ms logging)
HRnat_530a10_P5313Ts_2022071300_M_4588564.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5553.0888 seconds (13.68 ms logging)
HRnat_530a10_P5313Ts_2022071412_M_4588581.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5586.8783 seconds (13.73 ms logging)
HRnat_530a10_P5313Ts_2022071600_M_4588566.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5554.6875 seconds (13.29 ms logging)
HRnat_530a10_P5313Ts_2022071712_M_4588540.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5619.9023 seconds (13.57 ms logging)
HRnat_530a10_P5313Ts_2022071900_M_4588542.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5618.1755 seconds (13.69 ms logging)
HRnat_530a10_P5313Ts_2022072012_M_4588539.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5516.1179 seconds (13.92 ms logging)
HRnat_530a10_P5313Ts_2022072200_M_4588588.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5502.5496 seconds (13.77 ms logging)
HRnat_530a10_P5313Ts_2022072312_M_4588570.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5613.0262 seconds (13.52 ms logging)
HRnat_530a10_P5313Ts_2022072500_M_4588574.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5598.6850 seconds (13.50 ms logging)
HRnat_530a10_P5313Ts_2022072612_M_4588571.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5592.9930 seconds (13.63 ms logging)
HRnat_530a10_P5313Ts_2022072800_M_4588589.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5555.7451 seconds (13.97 ms logging)
HRnat_530a10_P5313Ts_2022072912_M_4588575.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5524.9680 seconds (13.55 ms logging)
HRnat_530a10_P5313Ts_2022073100_M_4590228.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5540.7973 seconds (13.72 ms logging)
HRnat_530a10_P5313Ts_2022080112_M_4590265.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5607.6053 seconds (13.47 ms logging)
HRnat_530a10_P5313Ts_2022080300_M_4590264.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5590.0519 seconds (13.58 ms logging)
HRnat_530a10_P5313Ts_2022080412_M_4590270.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5602.0623 seconds (13.65 ms logging)
HRnat_530a10_P5313Ts_2022080600_M_4590277.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5645.8356 seconds (13.66 ms logging)
HRnat_530a10_P5313Ts_2022080712_M_4590281.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5616.8410 seconds (13.52 ms logging)
HRnat_530a10_P5313Ts_2022080900_M_4590327.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5526.2416 seconds (13.58 ms logging)
HRnat_530a10_P5313Ts_2022081012_M_4590338.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5530.6340 seconds (13.30 ms logging)
HRnat_530a10_P5313Ts_2022081200_M_4590346.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5527.0002 seconds (13.74 ms logging)
HRnat_530a10_P5313Ts_2022081312_M_4590348.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5571.3506 seconds (13.71 ms logging)
HRnat_530a10_P5313Ts_2022081500_M_4590493.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5577.2719 seconds (13.73 ms logging)
HRnat_530a10_P5313Ts_2022081612_M_4590521.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5590.5720 seconds (13.42 ms logging)
HRnat_530a10_P5313Ts_2022081800_M_4590489.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5542.1696 seconds (13.88 ms logging)
HRnat_530a10_P5313Ts_2022081912_M_4590513.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5504.8678 seconds (13.60 ms logging)
HRnat_530a10_P5313Ts_2022082100_M_4590971.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5522.0518 seconds (13.37 ms logging)
HRnat_530a10_P5313Ts_2022082212_M_4591021.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5614.2807 seconds (13.74 ms logging)
HRnat_530a10_P5313Ts_2022082400_M_4591055.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5581.2960 seconds (14.04 ms logging)
HRnat_530a10_P5313Ts_2022082512_M_4591101.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5557.9950 seconds (14.01 ms logging)
HRnat_530a10_P5313Ts_2022082700_M_4591137.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5599.5400 seconds (13.39 ms logging)
HRnat_530a10_P5313Ts_2022082812_M_4591141.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5598.1293 seconds (13.55 ms logging)
HRnat_530a10_P5313Ts_2022083000_M_4593019.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5646.0825 seconds (13.36 ms logging)
HRnat_530a10_P5313Ts_2022083112_M_4593044.sc6pbs-001-ib.out.000:oe-00000-00000: Execution time : 5576.4056 seconds (13.81 ms logging)

Mean (2MOM_noLF_n1):
234503/42 = 5583 seconds (-0.24%)