



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada

Canadian Meteorological Center *report to GHRSSST*

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Environment and Climate Change Canada*

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CMC Environnement Canada
CMC Environment Canada

SST analyses at CMC

- **L4 0.2° CMC SST v1.0** (operational analysis)
 - Global 0.2° resolution, latitude/longitude grid
 - NOAA18, NOAA19, MetOp-A, MetOp-B, in situ data, ice information
- **L4 0.2° CMC SST v2.0**
 - Global 0.2° resolution, latitude/longitude grid
 - NOAA18, NOAA19, MetOp-A, AMSR2, VIIRS, in situ data, ice information
 - Reanalysis dataset (Sept. 1991 – to day)
 - Data access - PO.DAAC, GDS2 format
- **L4 0.1° CMC SST v3.0** (experimental analysis – since sept 2015)
 - Global 0.1° resolution, latitude/longitude grid
 - NOAA18, NOAA19, MetOp-A, MetOp-B, AMSR2, VIIRS, in situ data, ice information
 - Period available - since January 1, 2016
 - Data access – PO.DAAC, GDS2 format

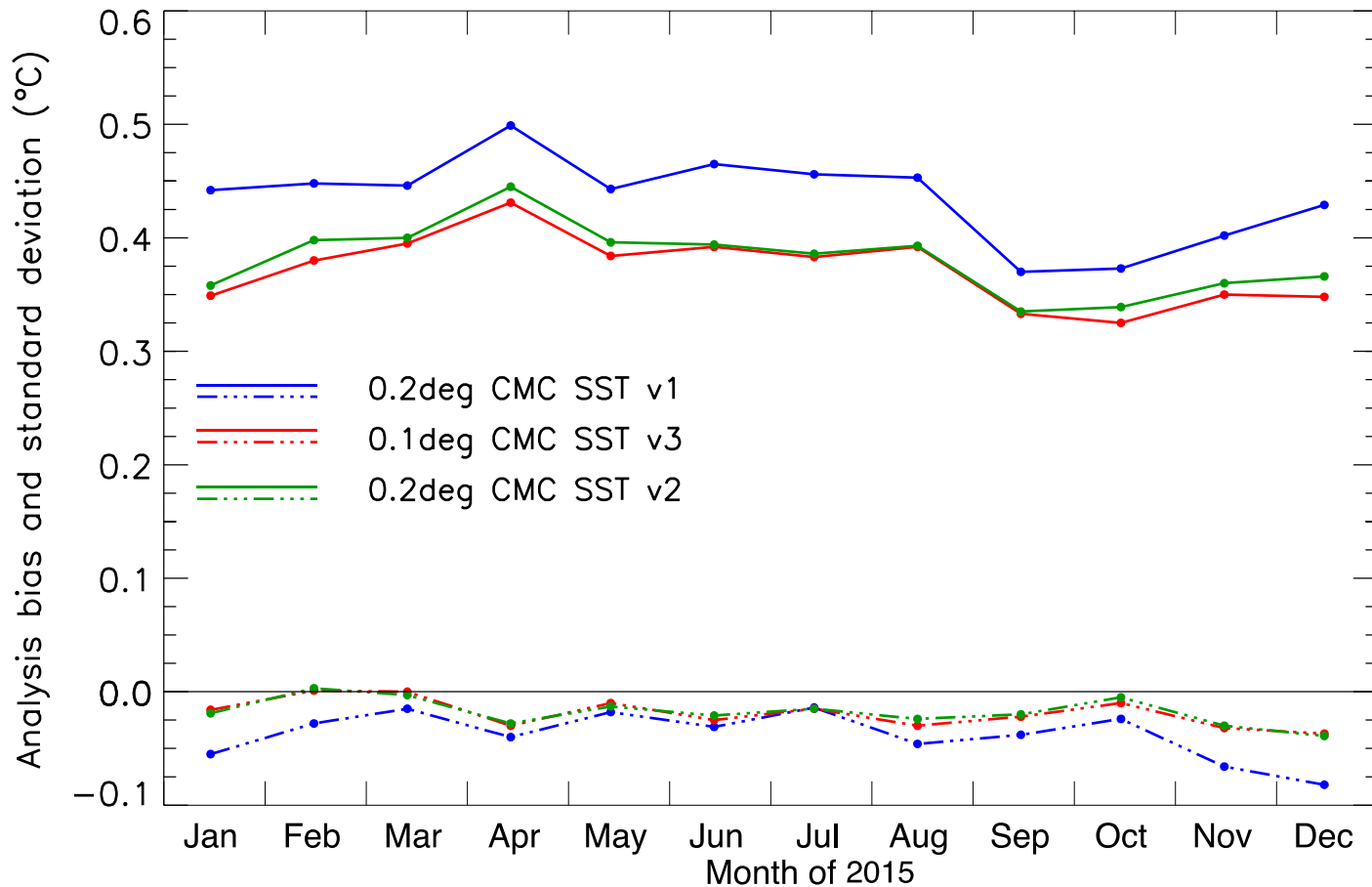


Data input

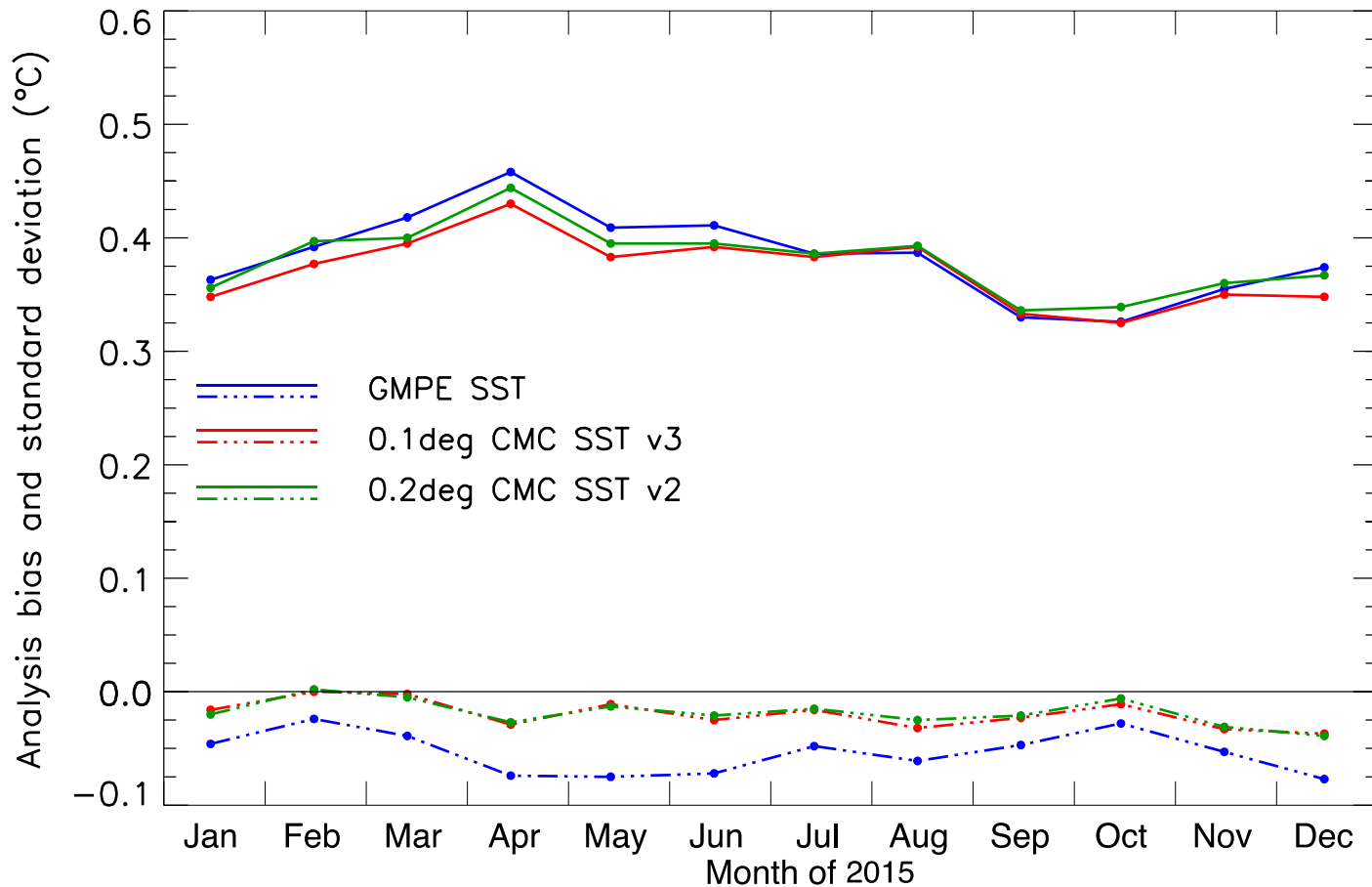
Data set	Data type	Source
NOAA18 AVHRR	L2P	NAVOCEANO / PO.DAAC
NOAA19 AVHRR	L2P	NAVOCEANO / PO.DAAC
Metop A AVHRR	L2P	NAVOCEANO / PO.DAAC
Metop B AVHRR	L2P	NAVOCEANO / PO.DAAC
AMSR2	L3	RSS
VIIRS-NPP	L2P	NOAA/NESDIS/OSPO / PO.DAAC
In situ	TAC / BUFR	GTS
Sea-ice concentration	L4	CMC ice analysis



Performance of CMC SST



Performance of CMC SST

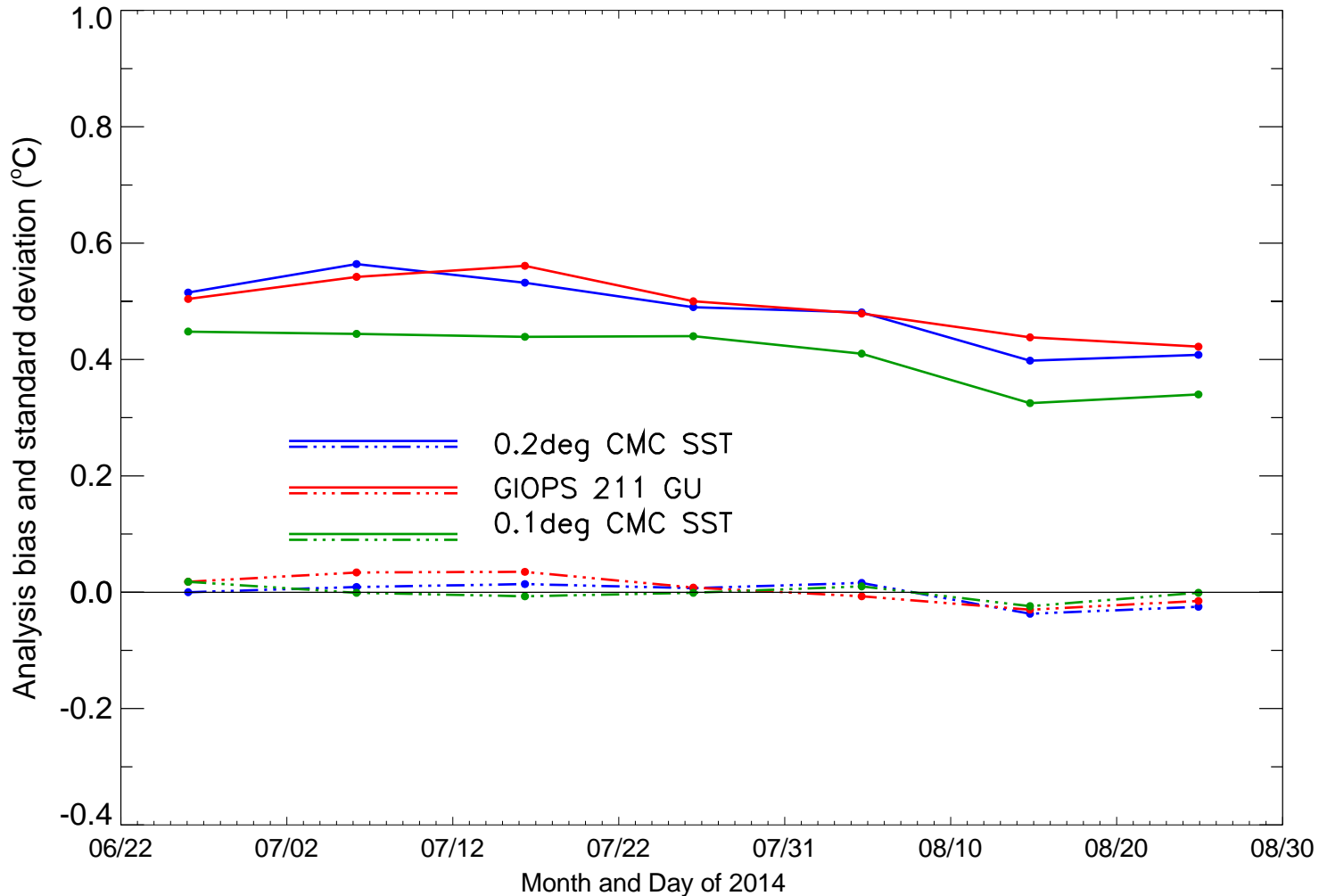


Systems using CMC SST analysis

- ***NWP systems***
- ***The Global Ice Ocean Prediction System (GIOPS)***
 - produces analysis and 10 days forecasts
 - operational systems since 2014
 - update of the data assimilation system (parallel run) in June 2016
- ***The Global Coupled Prediction System***
 - Coupling between GIOPS and GDPS
 - Proposition for experimental implementation next week



GIOPS daily analysis



Future plans

- Stop CMC SST v2 – this summer
- Change status for CMC SST v3 from “experimental” to “operational”.

Thank you !

