About the bugs report of JMA S2S data
(Only for the model in operation until 15th March 2017)

Climate Prediction Division

Japan Meteorological Agency
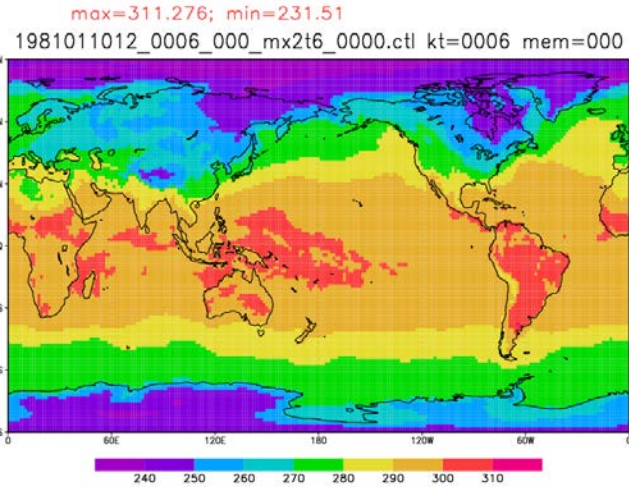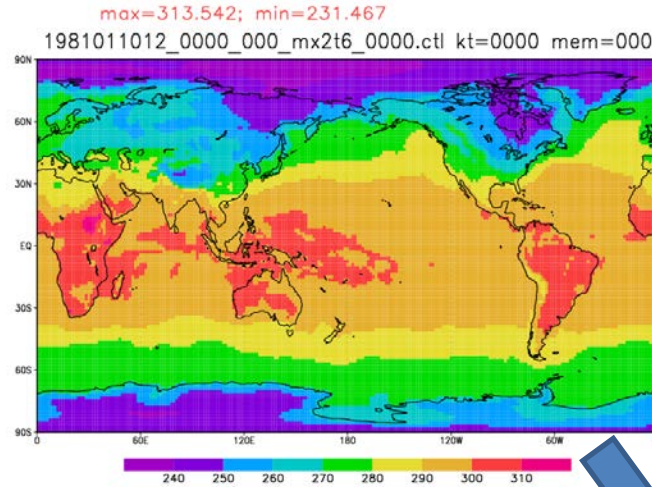
2017.06.12

Overview

- Periods of bugs
  - Real-time forecasts data from JMA from 1st January 2015 to 15th March 2017
  - Full re-forecasts data for the model version: 2014-03-04
- Type of bugs
  1. The valid time of the maximum/minimum temperature are wrong only for re-forecast data.
  2. The accumulated element except for total precipitation(tp) are wrong for real-time and re-forecast data.

element name	abbreviation	real-time	re-forecast
maximum temperature	mx2t6	no bugs	Type 1
minimum temperature	mn2t6	no bugs	Type 1
top net thermal radiation	ttr	Type 2	Type 2
surface latent heat flux	slhf	Type 2	Type 2
surface net solar radiation	ssr	Type 2	Type 2
surface net thermal radiation	str	Type 2	Type 2
surface sensible heat flux	sshf	Type 2	Type 2
surface solar radiation downwords	ssrd	Type 2	Type 2
northward turbulent surface stress	nsss	Type 2	Type 2
eastward turbulent surface stress	ewss	Type 2	Type 2
convective precipitation	cp	Type 2	Type 2

Bugs of the valid time

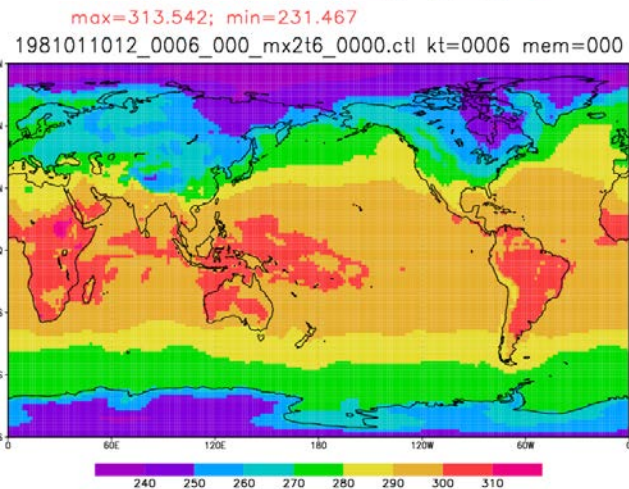step:0   step:6

c.f. Maximum temperature(mx2t6)

wrong

Only for All re-forecast data

correct

- All value of all step is shifted forward 6 hour compared to the correct value.

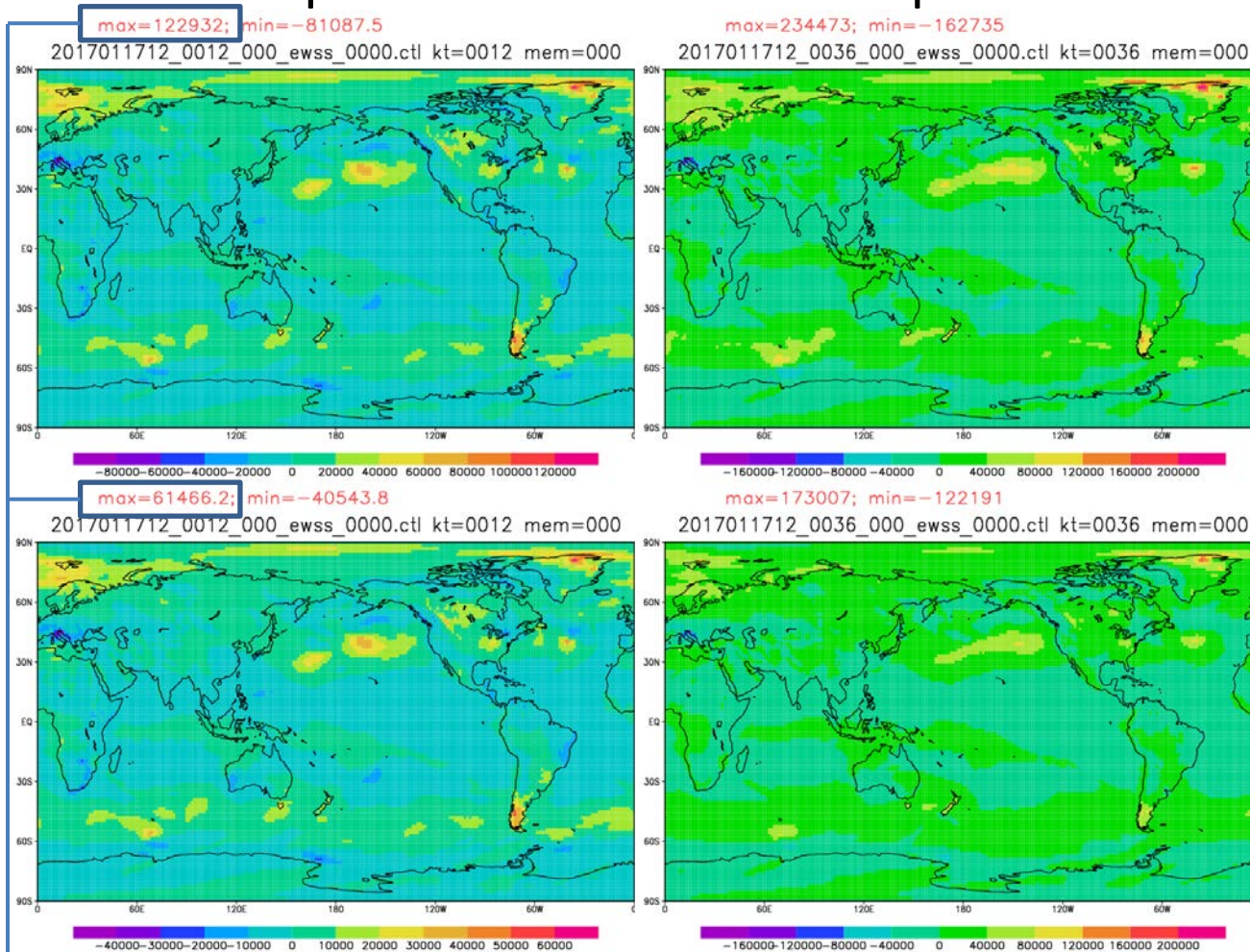# Bugs of the accumulated element

step:12   step:36

c.f. Eastward turbulent surface stress(ewss)

wrong

For All re-forecast data and real-time forecast data

correct

- All global value of "step:12" is twice as large as the correct value.
  - The unnecessary value of step:12 are accumulated in all global value of other step(e.g. step:36, step:60…).