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Cc: Palma, Elizabeth[Palma.Elizabeth@epa.gov]; Fox, Tyler[Fox.Tyler@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Naess, Liz[Naess.Liz@epa.gov]; Palma, Elizabeth[Palma.Elizabeth@epa.gov]; Fox, Tyler[Fox.Tyler@epa.gov]; Terry, Sara[Terry.Sara@epa.gov]; Naess, Liz[Naess.Liz@epa.gov]
From: Tonnesen, Gail
Sent: Tue 2/20/2018 2:14:30 PM
Subject: stratospheric intrusion workgroup call today, Feb 20, 9 am PT, 10am MT, 11am CT, noon ET
NCEP GFS to Monitor Stratospheric Intrusions.pdf

Hi All,

We have a SI workgroup call scheduled today at 9 am PT, 10 am MT, 11 am CT, noon ET.

Craig Long from NOAA offered to share work he is doing on the NCEP Global Forecast System model that might be useful for identifying SI ozone exceptional events. Craig's presentation is attached. Sorry for the late reminder. We also have a new conference line system.

Conference phone num
Conference ID:

Ex. 6 Personal Privacy (PP)

Thanks,
Gail

Gail Tonnesen
EPA Region 8 Air Program
303-312-6113

From: Craig Long - NOAA Federal [mailto:craig.long@noaa.gov]
Sent: Monday, January 15, 2018 4:03 PM
To: Brad Pierce <Brad.Pierce@noaa.gov>; Andrew Langford - NOAA Federal <andrew.o.langford@noaa.gov>; Owen Cooper - NOAA Affiliate <owen.r.cooper@noaa.gov>; Tonnesen, Gail <Tonnesen.Gail@epa.gov>
Subject: NCEP GFS Stratospheric Intrusion forecast information

HI Brad, Andrew, Owen and Gail,

I have found that you all are involved with Stratospheric Intrusion analysis and interpretation. A year or so ago I was approached by the NCEP Aviation Weather Center to see if the NCEP GFS could provide forecast information about stratospheric intrusions and elevated ozone in the tropospheric column. Apparently, the ozone levels in airline cabins can exceed limits if passing through an intrusion. Attached are some GFS forecast fields of the 2 PVU height, PVU amount on the 320K isentropic surface, total ozone and ozone mixing ratio at 300 hPa. My question is whether these analyses and forecast fields would be beneficial to your efforts. I know the GFS analyses are inferior to higher resolution regional model analyses, but the fact that the GFS does a reasonable job with the forecast fields might make them desirable in the pro-active sense.

Please let me know if you've already have looked at, and are using these fields and information. If not let us communicate on how to use these fields and who the customers would be.

Many Thanks,
Craig

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Craig S. Long
NOAA/National Weather Service
Climate Prediction Center