**Met Products for ATTREX Jan-Feb 2013 DFRC-based flight series**

(Starred quantities available on mission tools – others on met web site)

1. GOES-west and GOES-east imagery:

GOES-West imagery extends reliably from the dateline to about 100 west. GOES-East should probably be available for occasional possible forays in that direction. Note that INMARSAT coverage may be an issue east of 120.

1. Obtain digital data (visible, WV, and IR) from LARC, and ARC met group processes into gif files containing:
2. brightness temp (\*)
3. cloud top altitude (simple IR temperature matching – accurate only for optically dense clouds – convection) (\*)
4. Water vapor brightness temp (\*)
5. Visible imagery (1 km) (\*)

 (b) Larc and us will provide imagery to COMPASS.

 (2) Real time lightning – provided by AS – similar format to HS3 would be appropriate, since we need it for the same reasons as HS3 (pretty much – aircraft safety)

 (3) Numerical forecasts of met quantities – from NCEP and GEOS

 (a) Tropopause temperature and altitude

 (b) 100mb and 70 mb temperature (\*)

 (c) Precip forecasts and 700mb circulation (\*)

 (d) Circulation and PV at 100, 150, and 70 mb

 (e) High cloud forecasts

 (f) Probably just (b) and possibly (c) will be made available on mission tools via registered gif files.

 (4) Most recent GPS temperature information (Laura et al?)

 (5) Trajectory-based convective influence forecasts

 (6) Trajectory-based water vapor forecasts (Schoeberl)

 (7) Quick-look CALIPSO information (CALIPSO group and Kim)

 (8) Quick-look MLS water vapor information (MLS group)

 (9) Current flight plan and modifications in real time (\*)