

## **Tri-Agency Mission Scientist Discussion Summary - July 28, 2010**

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The project is still within a suppressed period with no organized tropical systems likely to emerge in the sampling area for the next 2-3 days. Mid-level dry air most likely from large-scale subsidence is dominating all the way from the coast of Africa across the Atlantic. Three tropical waves are currently being monitored, namely 19L, 20L and 21L. In addition, there is a trough off the east coast of Mexico with lots of convection, but it is too far away from the sampling area to contemplate any microphysics or satellite validation studies. There is also a low and a frontal boundary to the north-east of Florida, but it is getting weaker and does not offer any targets of interest. In terms of location, the other waves are currently in the following locations: 19L (60W), 20L (40W) and 21L (over Africa).

Wave 19L is not that dusty and is currently hard to see on the satellite imagery. It is currently not undergoing pouch tracking.

Wave 20L near 40W has a small area of convection to the west of the trough. There is some high precipitable water vapor, but mid-level dry air and subsidence is generally suppressing the convection. The pouch tracking analysis has a fairly long-lived track for 20L, but it stays further south and meanders around 60W for a while. It is not showing much sign of intensification, but should be monitored for the next 24 hours to see how it develops.

There is some ITCZ convection developing between wave 20L and 21L, and some sense of rotation over the coast of Africa. There is some sense of an east-west elongated trough over and off Africa, and convection is associated with this elongated trough over Africa. Right now there is not much dust in the vicinity of the convection, but this should be monitored over the next couple of days to see how it evolves and to see to the degree there will be interaction with dust in the SAL. In terms of forecast, there is a good pouch emerging from Africa with it first taking a more north-westerly track before taking a SW track. Some of the global models are starting to develop something from the interaction of the ITCZ in combination with 21L. This will have to be watched over the next couple of days because it could be a target of interest when it hits 40W in approximately 4 to 5 days.

Following is the consensus decision on all aircraft for July 29 mission:

G-V: No flights planned.

NOAA 42 and 43, G-IV: No flights planned.

NASA GH, DC-8 and WB-57: No flights planned.