

2000 UTC 08 September 2019 Forecast Discussion
Current Ship Location: Near 17N, 126.6E

Summary: 95W, currently centered around 13.5N and 144.2E, could undergo genesis near or past +24hrs as it tracks generally westward towards the research domain. The system could begin to impact the area of operation at +72hrs and should be closely monitored by the ship. Disagreement on track and intensity in the models continues to make the future of 95W uncertain in the long term. BSISO is currently in phase 6 with potential for a weaker amplitude phase 5 next week.

Day One (24 hr) Outlook: Tropical cyclogenesis of 95W is more likely, but not expected in the next 24 hours. Continued enhanced chances of precipitation associated with rain showers and thunderstorms expected in the area of operations. Significant wave heights range from 4-6ft.

Day Two (48 hr) Outlook: Tropical cyclogenesis of 95W may occur within the next 48 hours. Chances of precipitation associated with rain showers and thunderstorms is expected to decrease towards the end of Day Two. Significant wave heights range from 4-6 ft with higher wave heights associated with 95W approaching the domain from the east.

Extended Outlook: Models disagree on the forecast intensity and track for 95W, with GFS forecasting a stronger storm that moves further away from the area of operation, and ECMWF forecasting a weaker, broader storm that tracks over the area of operation. The ship will need to monitor this and be prepared to move out of the potential track of 95W in the coming days if this becomes necessary.

Discussion

TCs: Faxai and 96W do not pose a threat to the area of operation.

95W, currently centered around 13.5N and 144.2E, has been upgraded to a medium chance with development likely beyond 24 hours by JTWC. The GFS and ECMWF show genesis quickly following the +24hrs mark. However, subsequent intensification of the system is slow to occur in both. The slow intensification is due to a broad and ragged circulation in the system. While intensification is expected to be slow over the next 24 to 48 hours, over the long run, the models do not agree on either the intensity or the track of the system. GFS favors a stronger system beyond 72 hours, but recurves the system over the northern portion of the area of operation. ECMWF favors a larger but weaker system and takes the system straight west over the area of operation and towards Luzon. With a larger weaker storm, impacts may not be as severe to the area of operation, but may result in a higher likelihood of impacts with the potential to be longer duration. The area of operation is likely to be affected around +72 hours and beyond. The duration of impacts from this system remains unclear due to disagreement in the models in the long term. The ship should be prepared to move if necessary.

Convection: No major change in the forecast from yesterday, with continued enhanced chances of precipitation associated with rain showers and thunderstorms over the next 24 to 48 hours. GFS is still indicating a decrease in precipitation between around 00Z Sept. 10th and 06Z Sept. 11th, as the area of precipitation currently over the area of operation shifts west and suppressed conditions develop ahead of the incoming Invest 95W.

MJO/BSISO: The current BSISO index is in phase 6. Both GFS and ECMWF are in agreement of a retrograde to phase 5 next week, before propagating back to a phase 6 and onward. However, GFS is indicating a stronger amplitude than the ECMWF. The ECMWF MJO index has a weak amplitude around the border of phase 5 and 6, with diminishing amplitude expected over the next few weeks after a brief spike of higher amplitude in phase 5.

SSTs: SSTs are still expected to remain warm around 29°C.

#Currents and Wave Heights: No significant change from yesterday: models are suggesting SWH will be in the 4-7 ft range for the next 48 hrs.

CAMP-EX: Coordination proposed for Sept. 9th with two options provided for P3 flights depending on cloud conditions. Proposed location for the Sally Ride is at 17.15 N and 126.23 E at 05:09:09 UTC for Worldview. For more details, refer to Derek Posselt's email sent out on Sept. 8th at 1454 UTC. Coordination also proposed for Sept. 10th with the Lear. Detailed plan will be provided tomorrow and is dependent on the forecast for 95W.

FORECASTER: DEHART, DESROSIERS, RAZIN

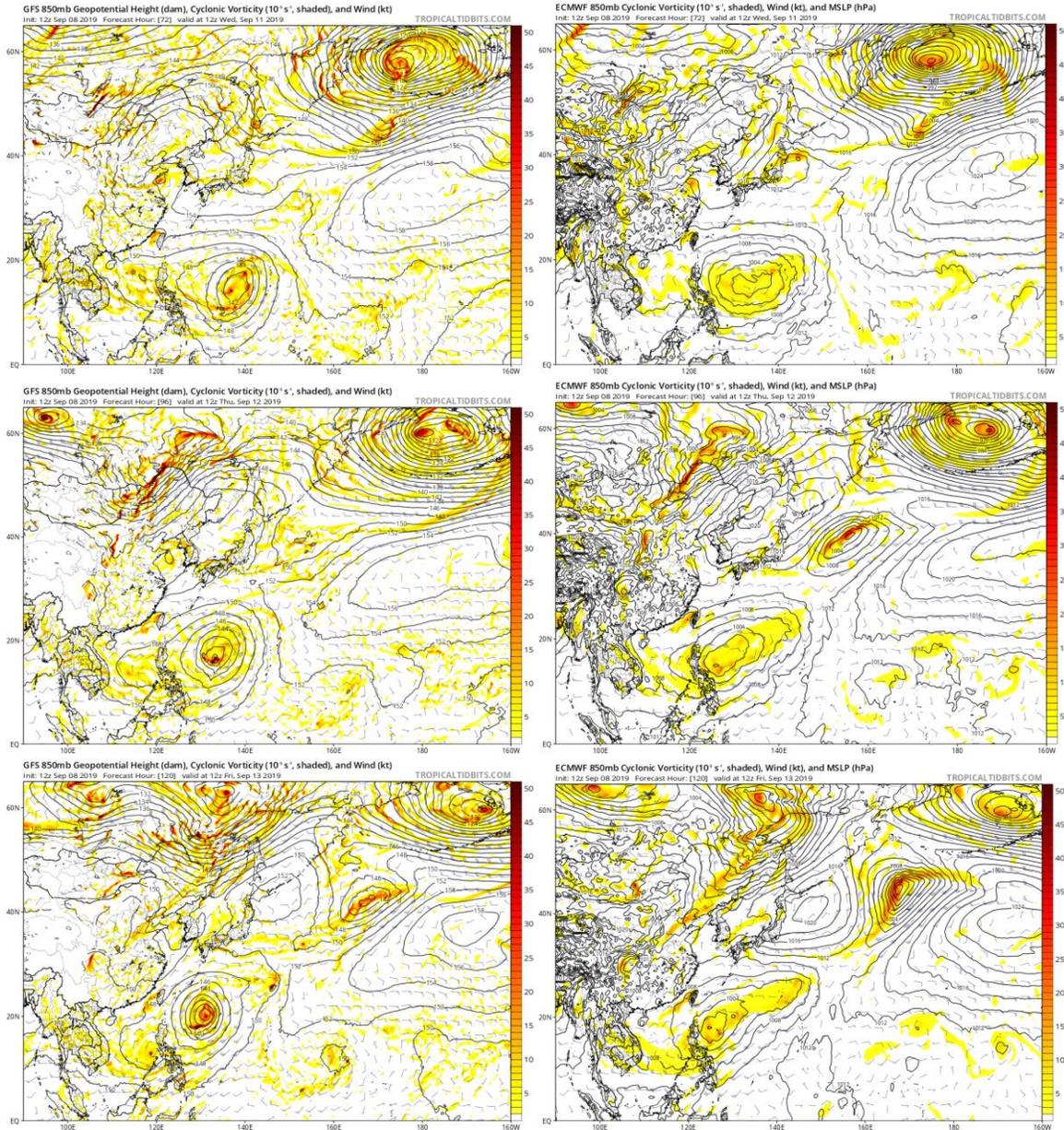


Fig. 1. GFS (left) and ECMWF (right) vorticity and wind field at 850 mb, and mean sea level pressure field for hours 72 (top), 96 (middle), 120 (bottom).