

# Application of Atmospheric Motion Vector in KMA

- Upper Level Flow
- Jet stream
- Typhoon Center analysis
- Strong winds

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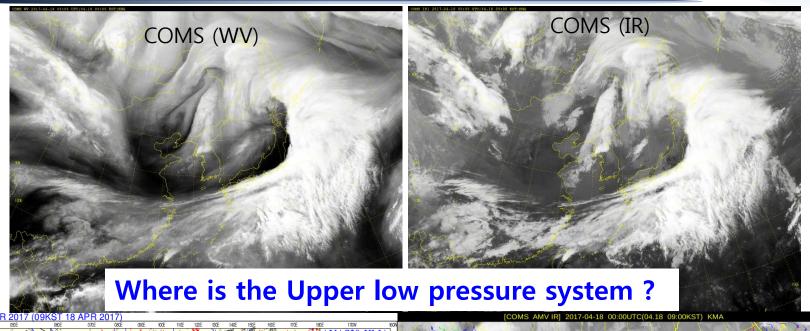
Contact point of CoE-Korea: hyesookpark@korea.kr

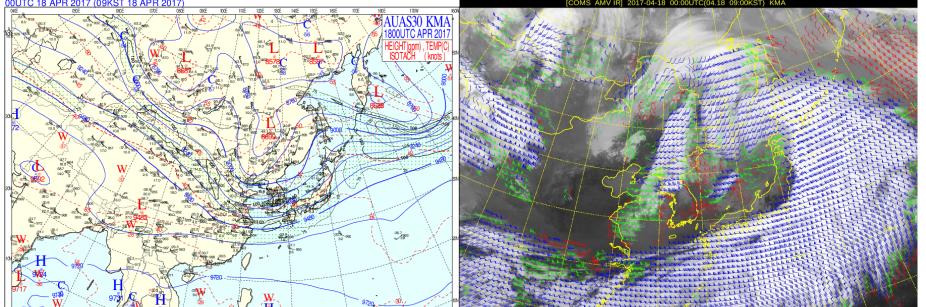
Satellite Analysis Division, National Meteorological Satellite Center

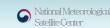


# **Upper Atmosphere Analysis**

2017.04.18. 00UTC



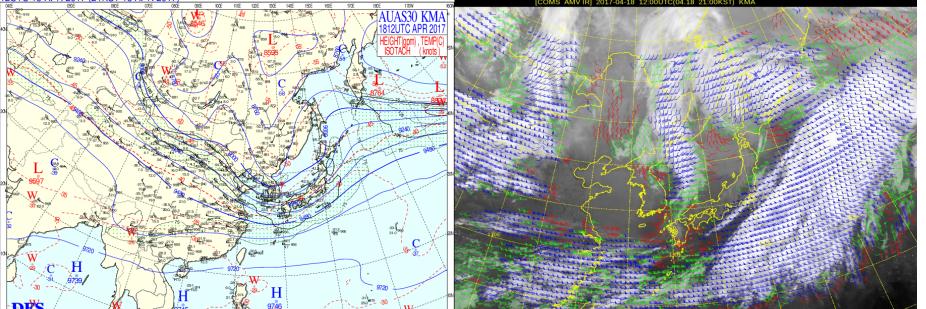




## **Upper Atmosphere Analysis**

2017.04.18. 12UTC

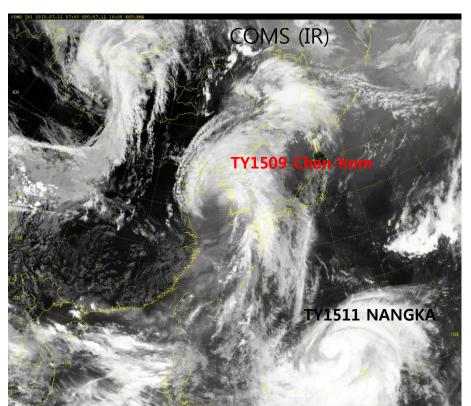


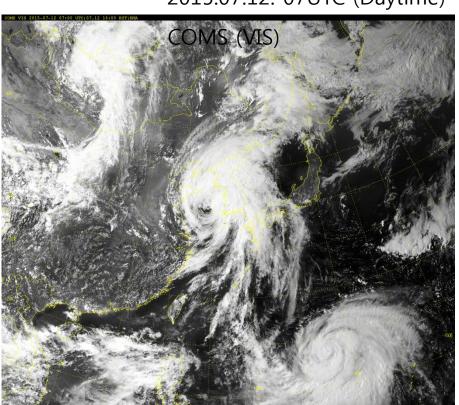


### **Tropical Cyclone Analysis-Center**

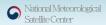


2015.07.12. 07UTC (Daytime)





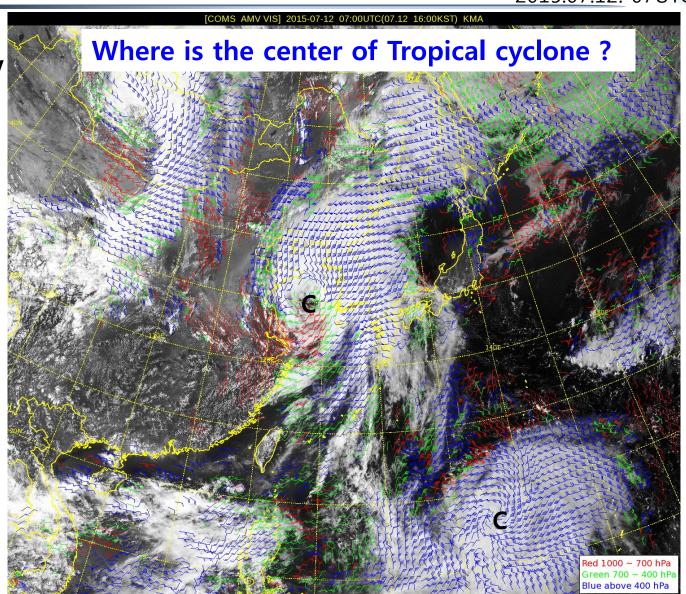
Where is the center of Tropical cyclone?



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2015.07.12. 07UTC

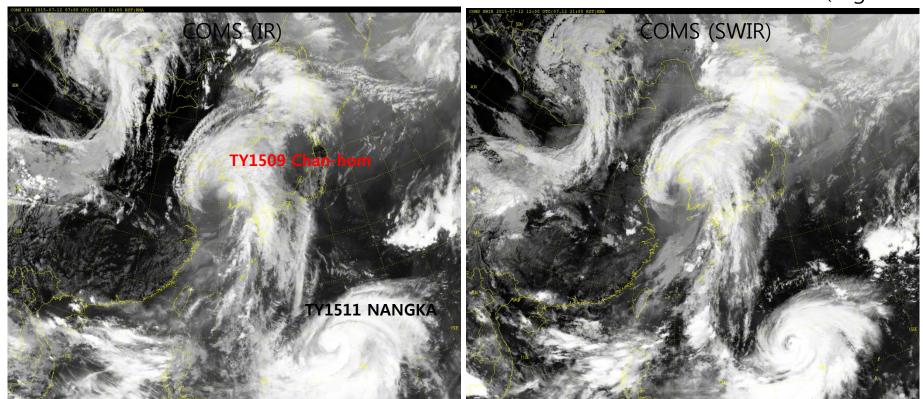
COMS AMV (VIS)



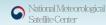




2015.07.12. 12UTC (Nighttime)

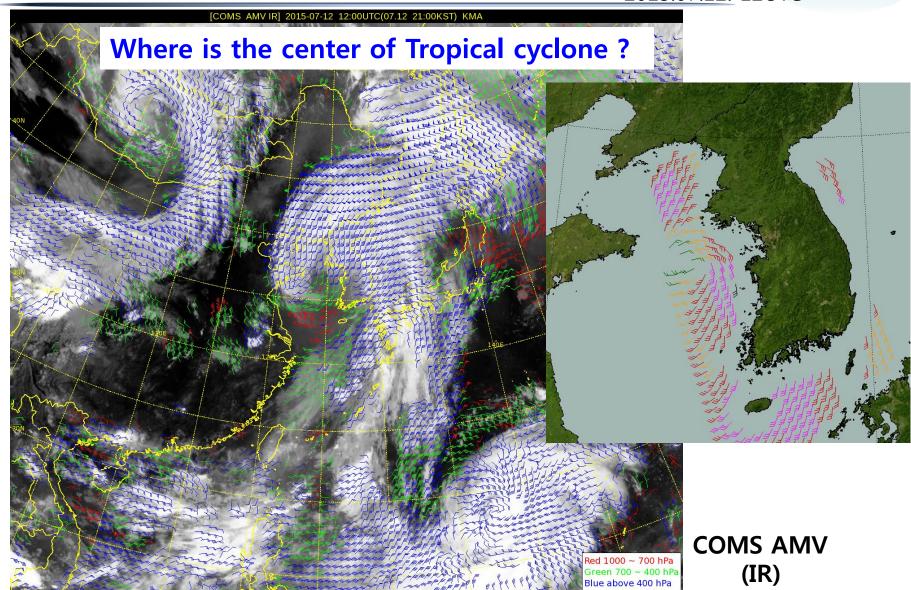


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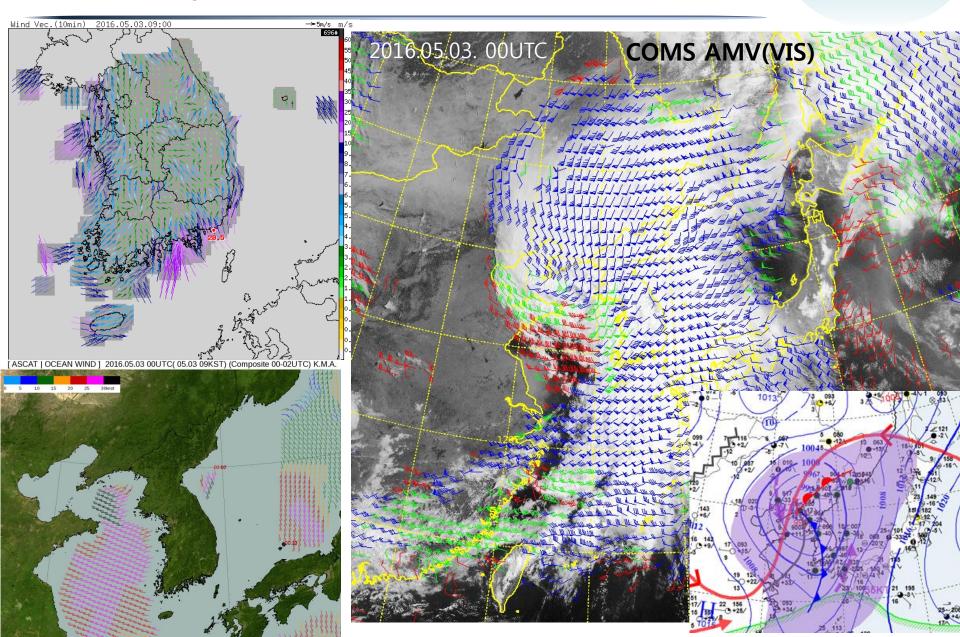
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2015.07.12. 12UTC



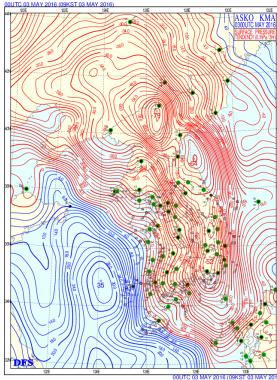


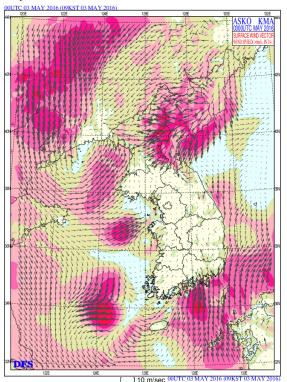
## Front analysis - Bomb Low (Strong wind)



#### **Effects of Bomb Low**

Surface pressure tendency(0.1hPa/3hr) Winds Vector







Central pressure drop more than 24hPa a day Strong wind above 20m/s all over the Korean Peninsula & wind shear

→ Aircraft cancellation(173 in Jeju), No ships, breakage of building, roadside trees etc.