



Application of MW Scatterometer data in KMA

- Surface circulation
- Tropical cyclone analysis

May 2017

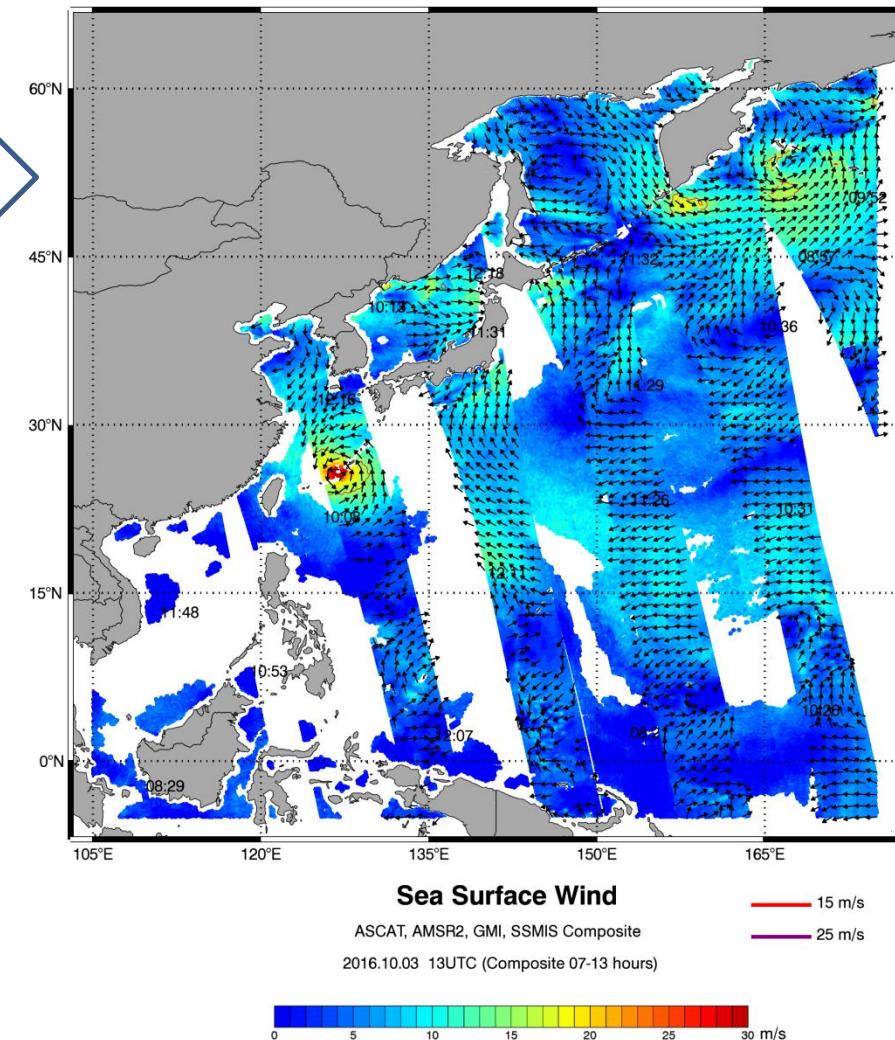
Dr. Hye Sook, Park

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

Satellite Analysis Division, National Meteorological Satellite Center

☞ Sea Surface Wind (SSW)

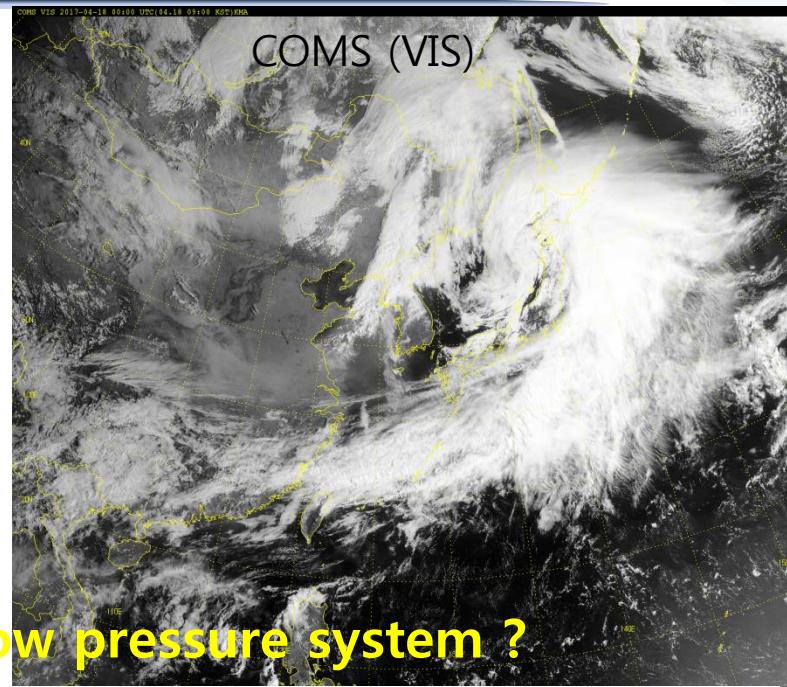
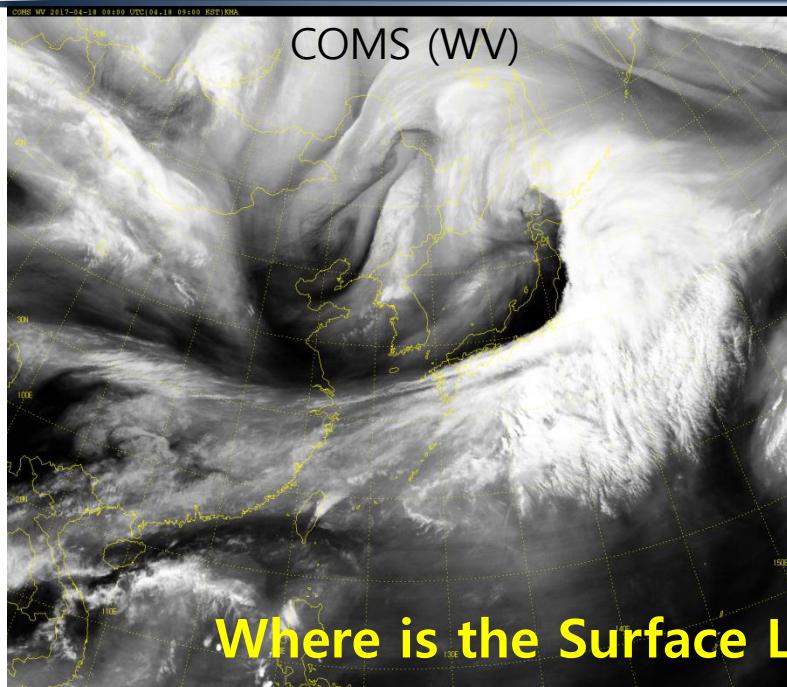
→ Integrated display of all available SSW from MW satellites



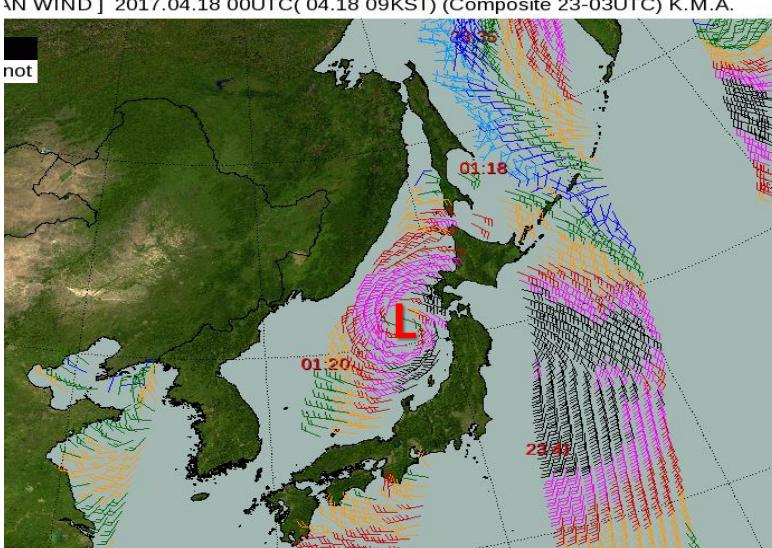
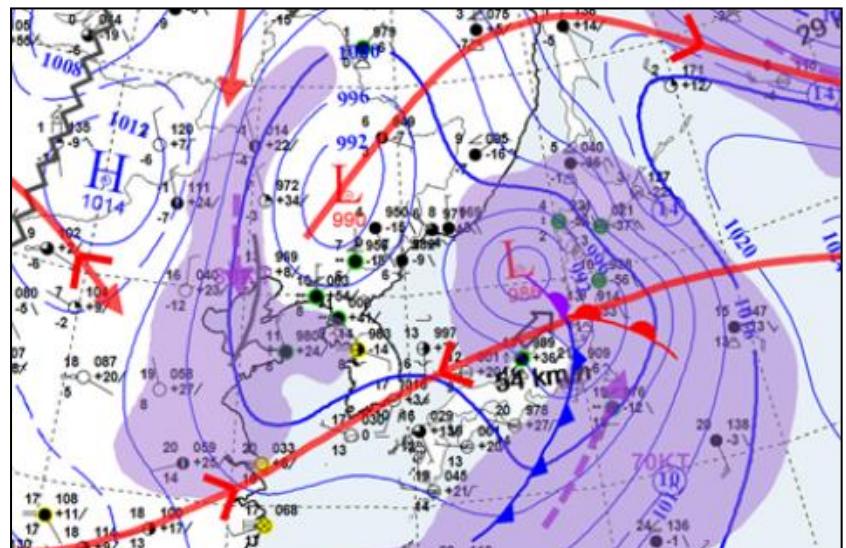
- ◆ Inputs
 - ASCAT [wind speed](#), direction
 - AMSR2 wind speed
 - GMI wind speed
 - SSMIS wind speed
- ◆ Spatial Resolution : 0.25×0.25
- ◆ Integrated duration : 6hour
- ◆ Display time interval : 1hour

Low circulation Analysis – Low at the surface

2017.04.18. 00UTC(Day)

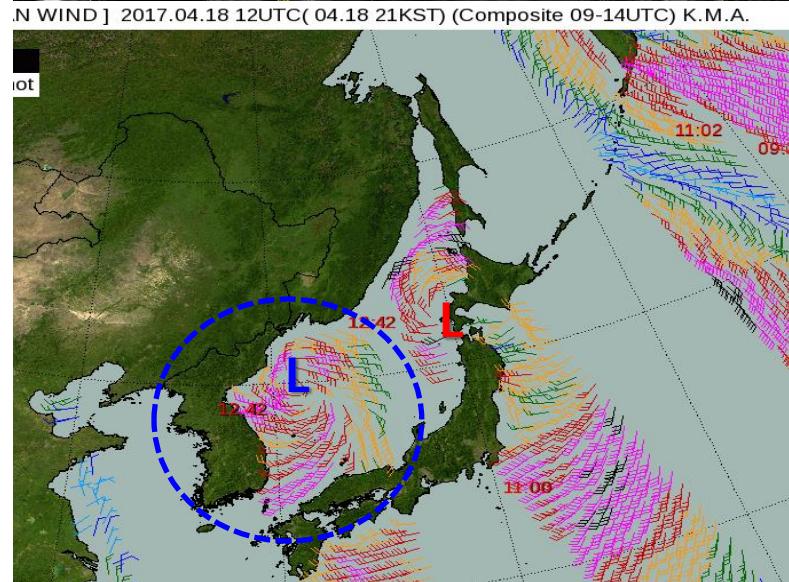
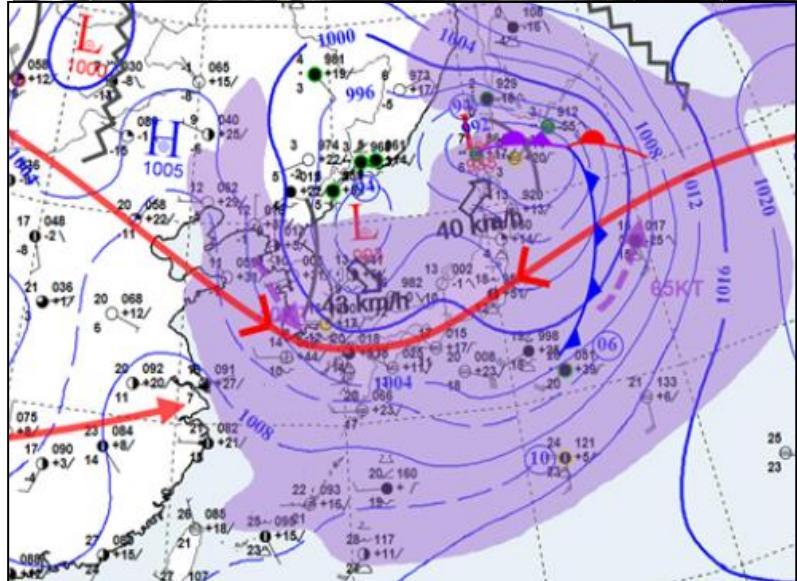
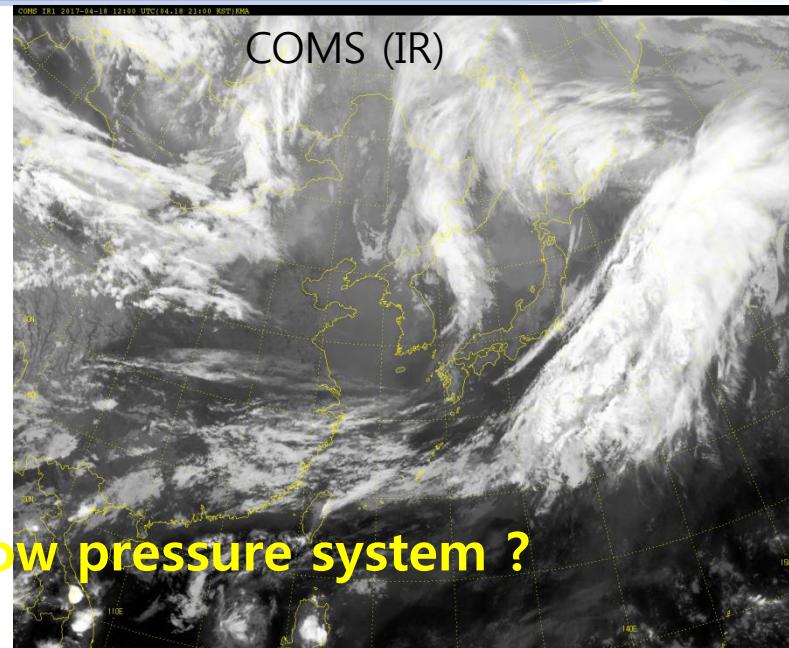
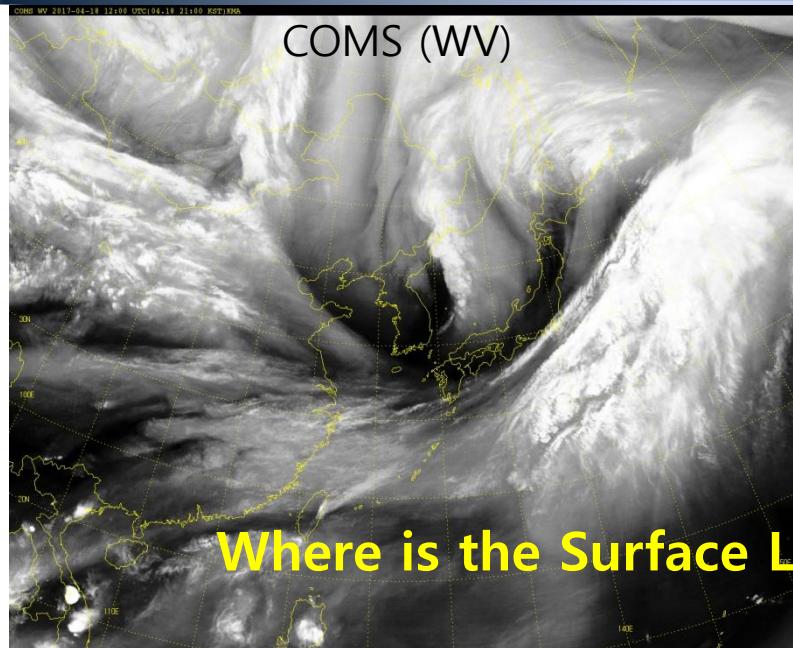


Where is the Surface Low pressure system?



Low circulation Analysis – Low at the surface

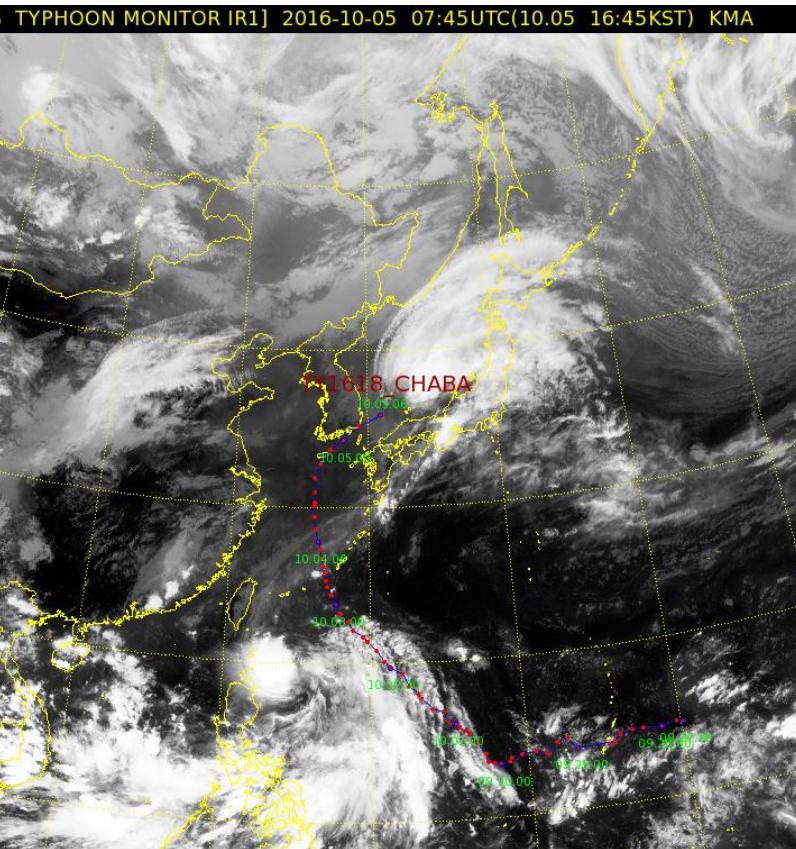
2017.04.18. 12UTC(Night)



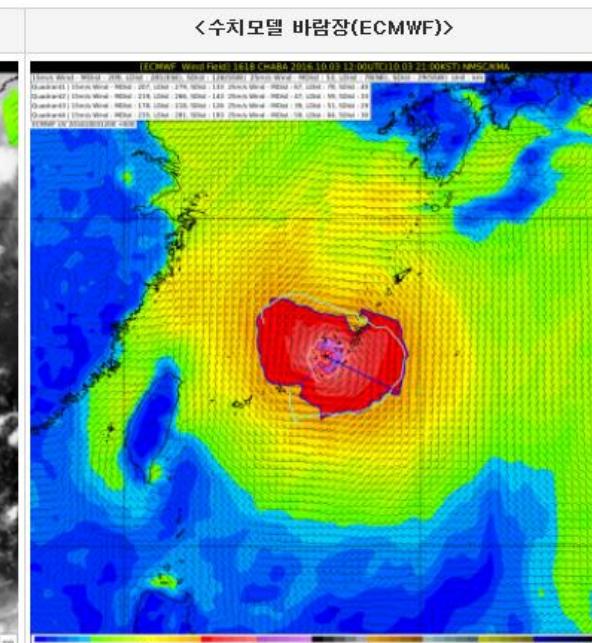
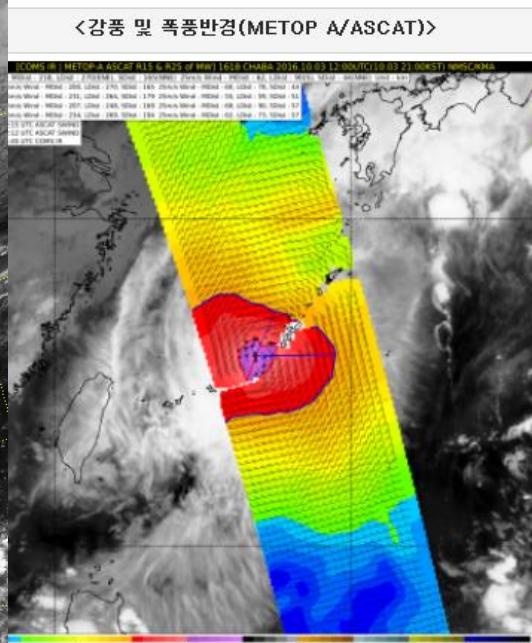
Tropical Cyclone Analysis – Strong(15m/s) & Gale force(25m/s) winds area

TY1618 CHABA

('16. 09.27. 18~10.5 15UTC)

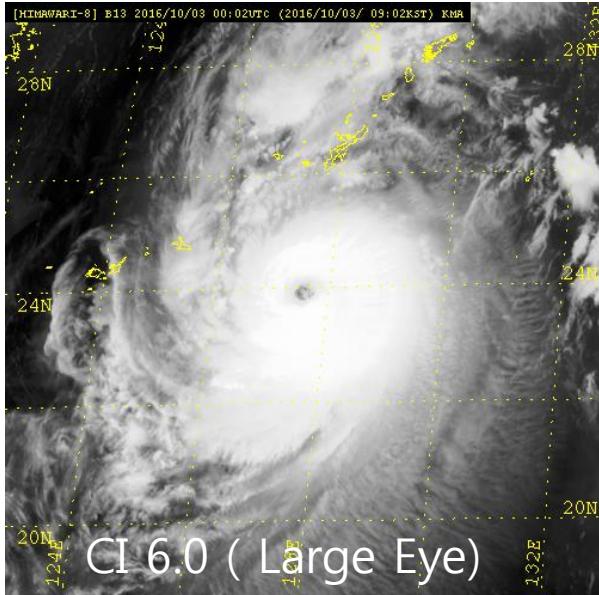


2016.10.03 21KST

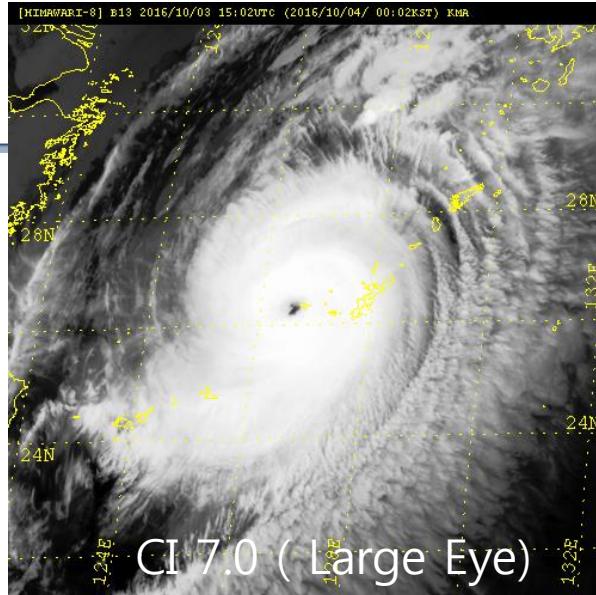


15m/s Wind - MDist : 218, LDist : 270(ENE), SDist : 165(NNE) 25m/s Wind - MDist : 62, LDist : 90(S), SDist : 44(NNE) Unit : km

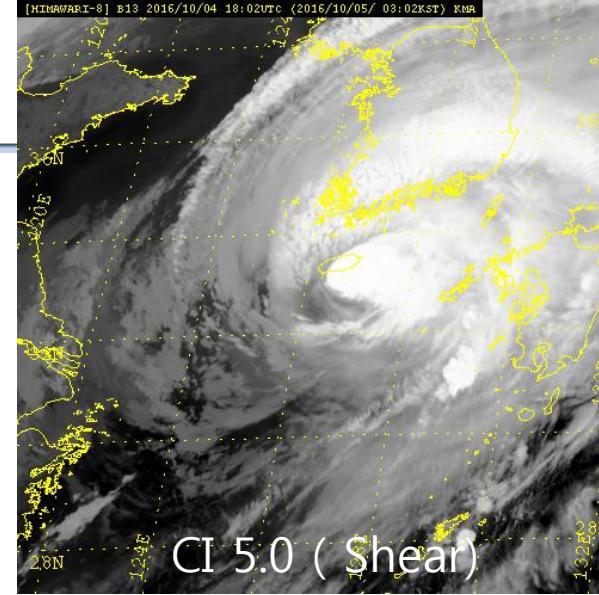
2016-10-03 12:15 UTC ASCAT SWIND
2016-10-03 12:12 UTC ASCAT SWIND
2016-10-03 11:45 UTC COMS IR



2016.10.03 00UTC



2016.10.03 15UTC



2016.10.04 18UTC

