

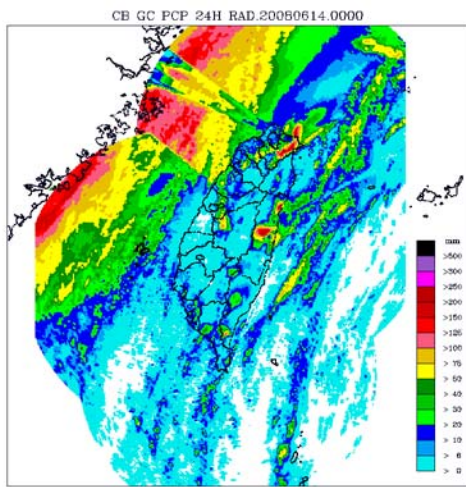
Case study of the MCS* of June 14-16 during TiMREX

correction: **multiple MCSs...*

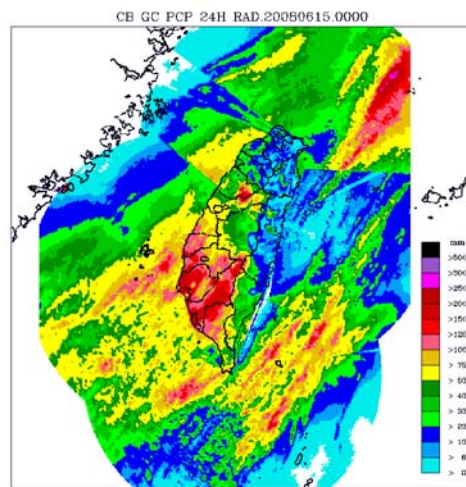
Presented by Ed Zipser, University of Utah, USA
(co-author Weixin Xu, University of Utah, USA)

OUTLINE OF TALK

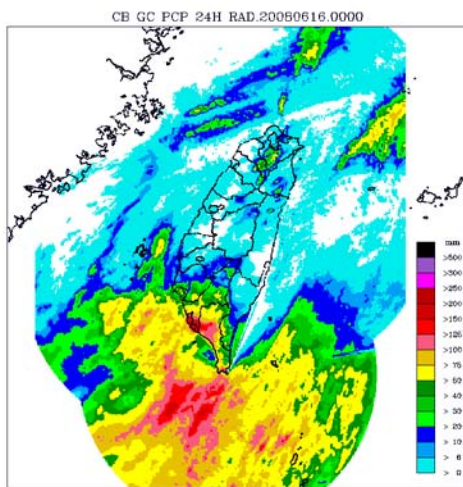
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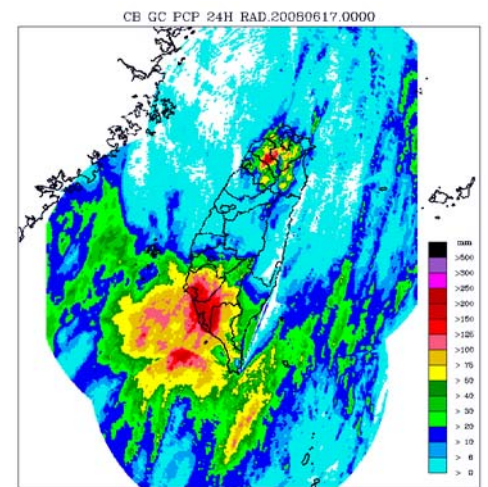
00Z 6/13 - 00Z 6/14 rain



00Z 6/14 - 00Z 6/15 rain

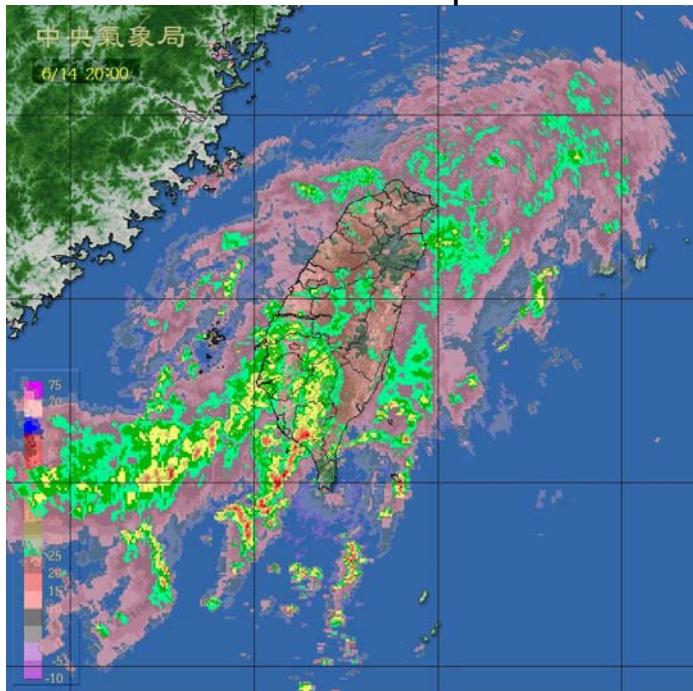


00Z 6/15 - 00Z 6/16 rain

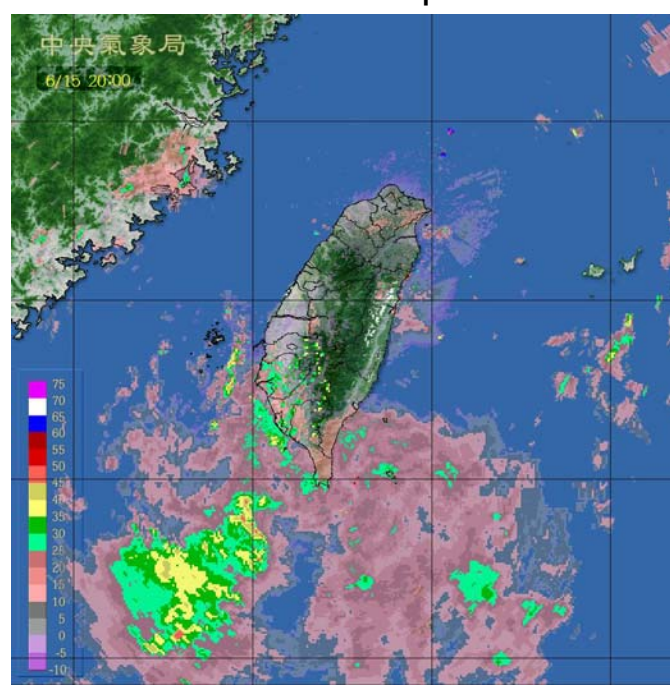


00Z 6/16 - 00Z 6/17 rain

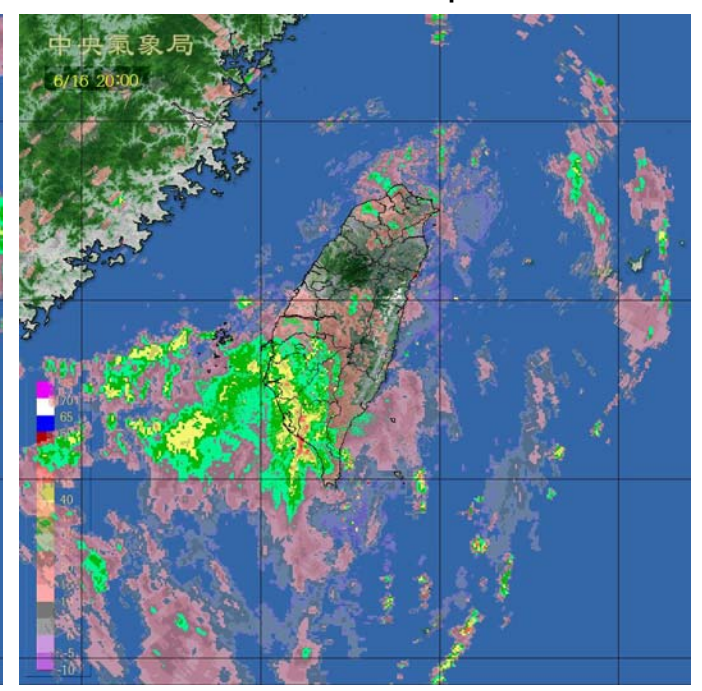
12Z 6/14 radar composite



12Z 6/15 radar composite

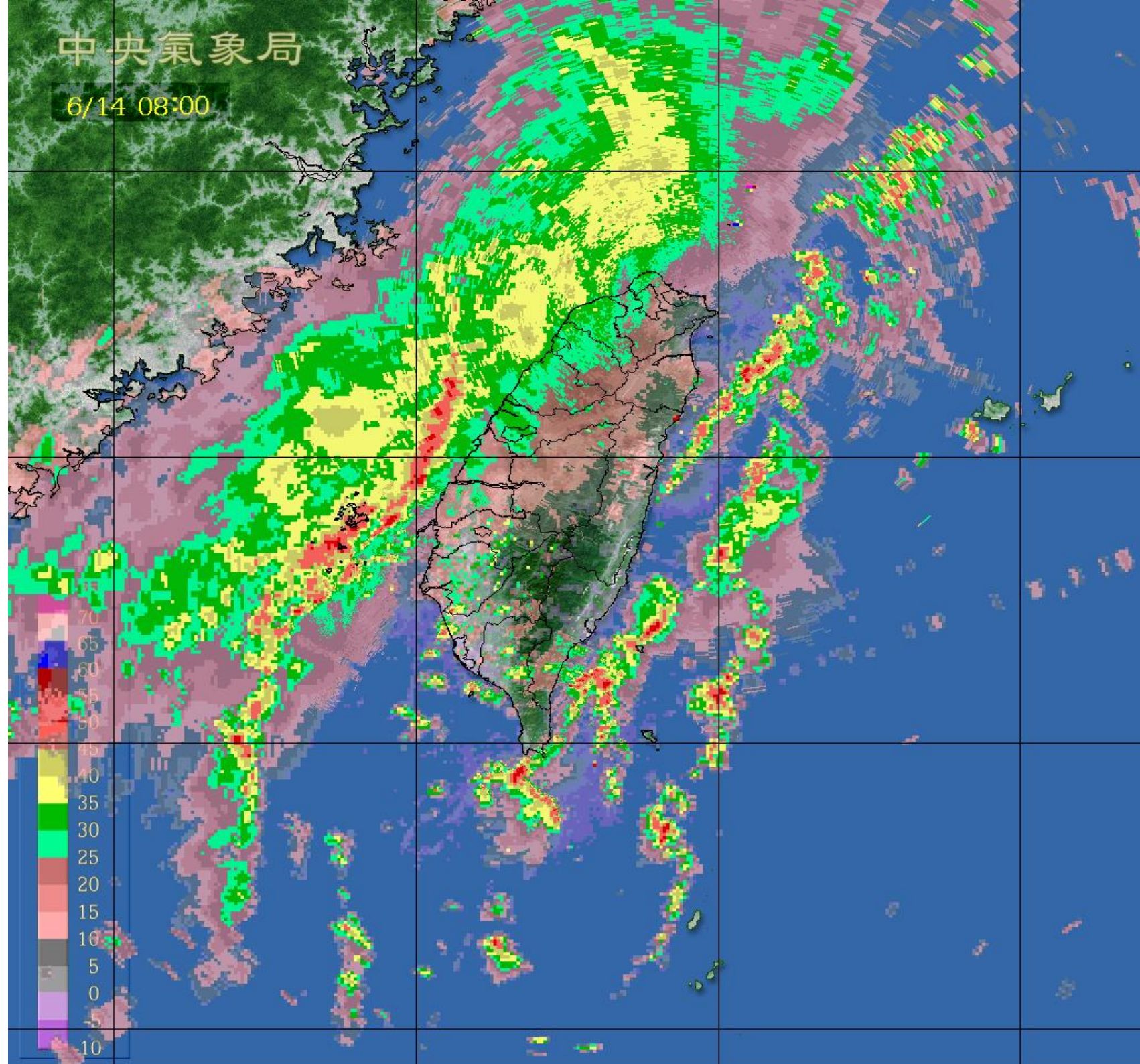


12Z 6/16 radar composite



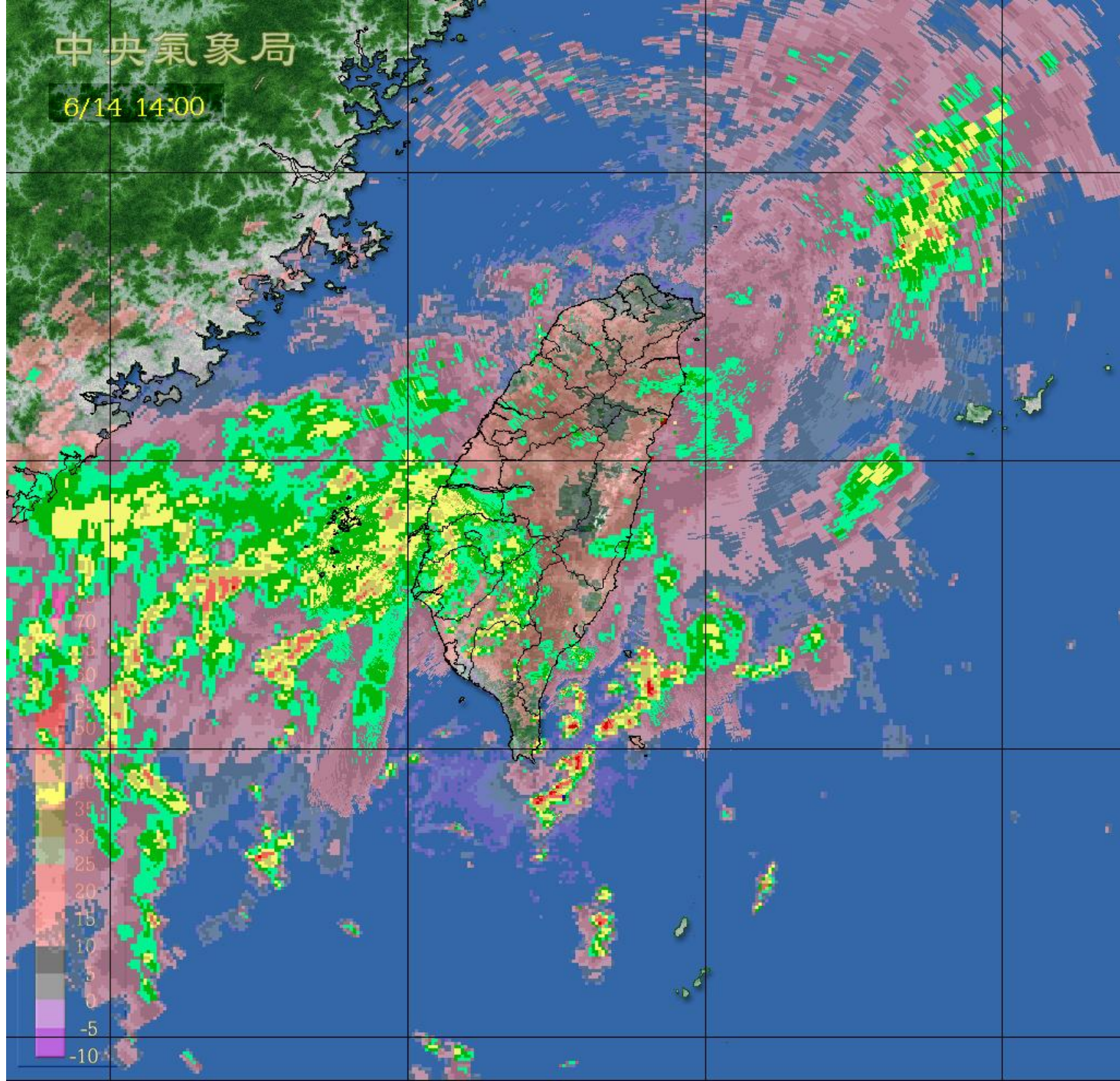
中央氣象局

6/14 08:00



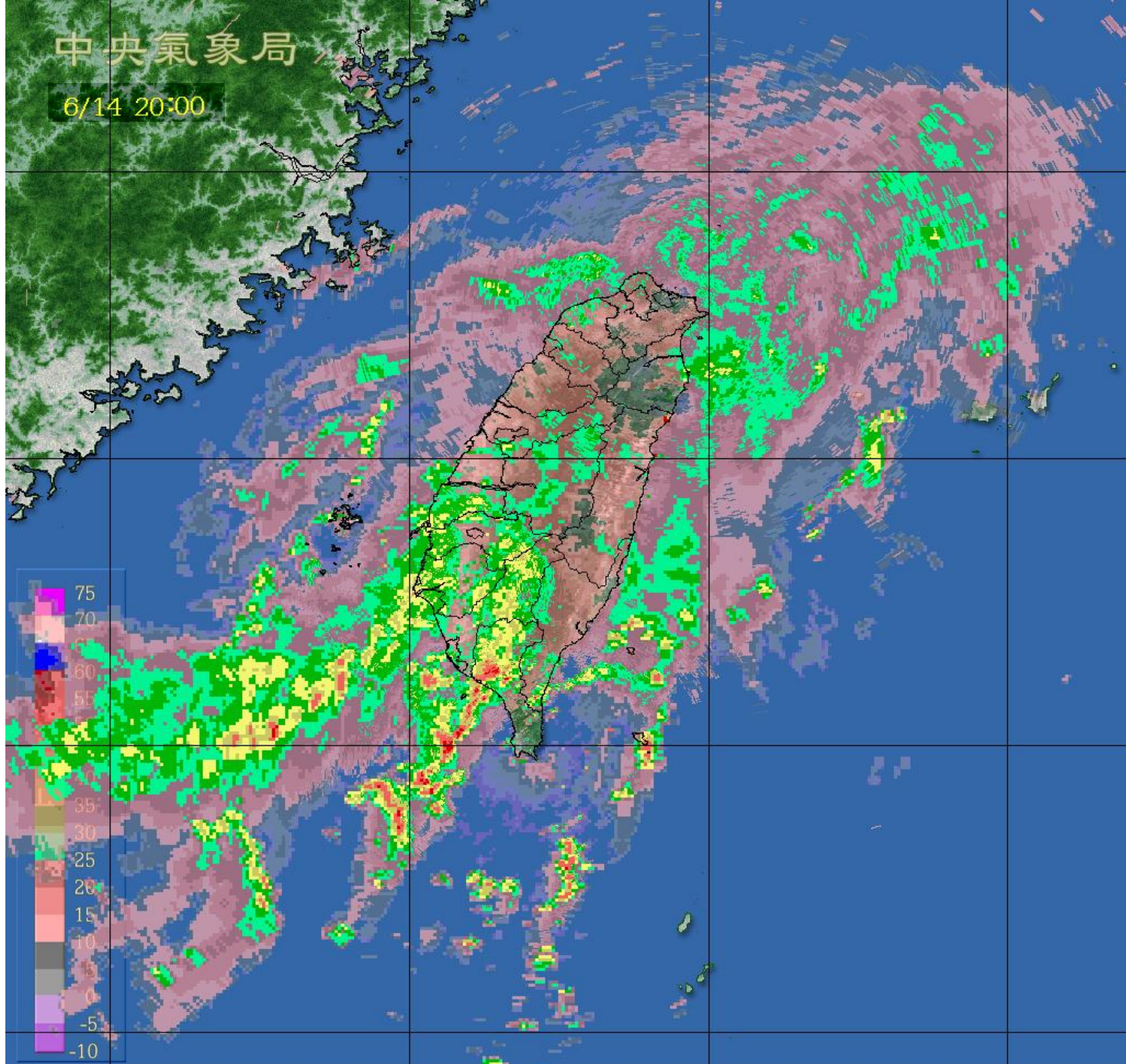
中央氣象局

6/14 14:00



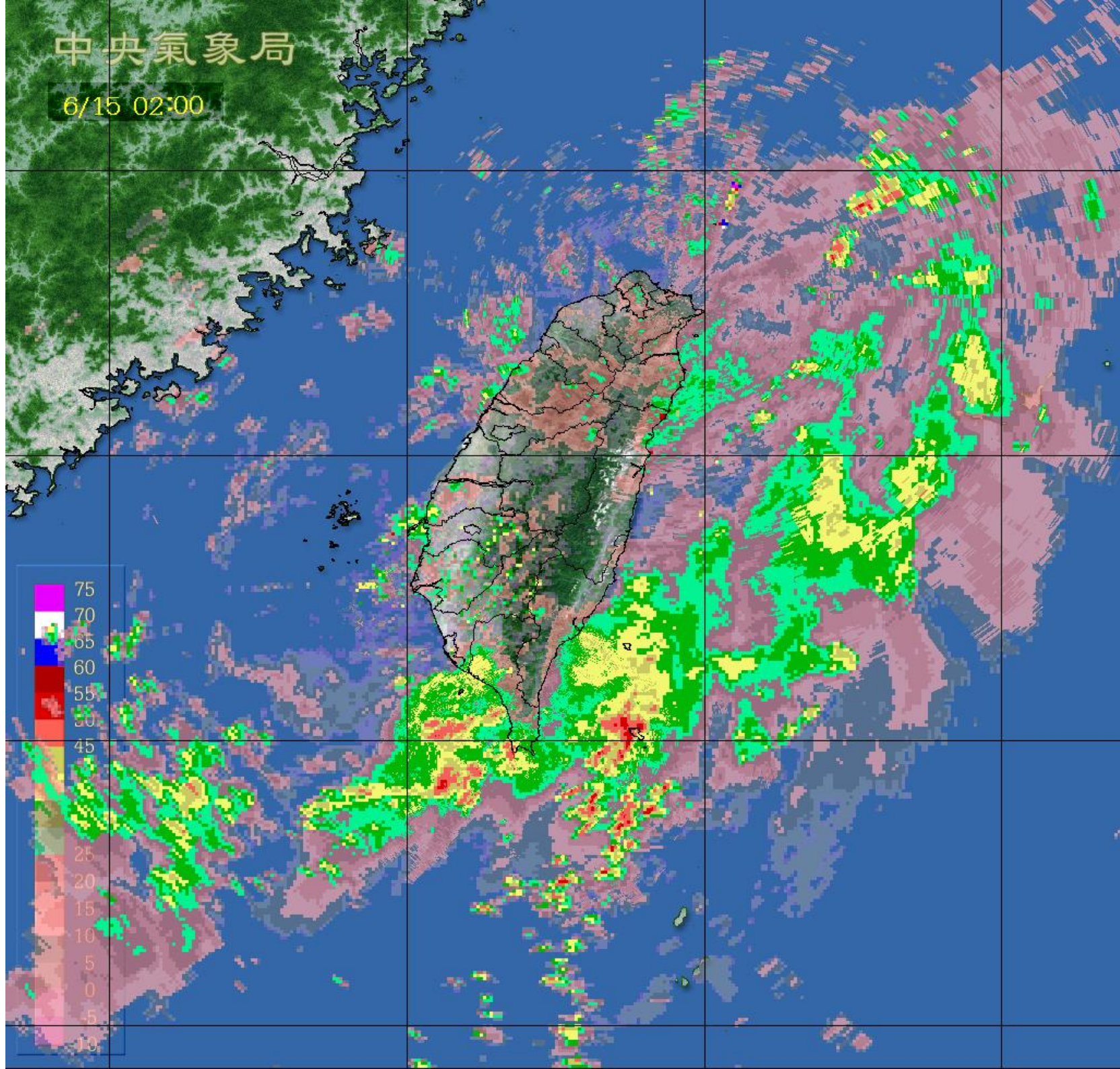
中央氣象局

6/14 20:00



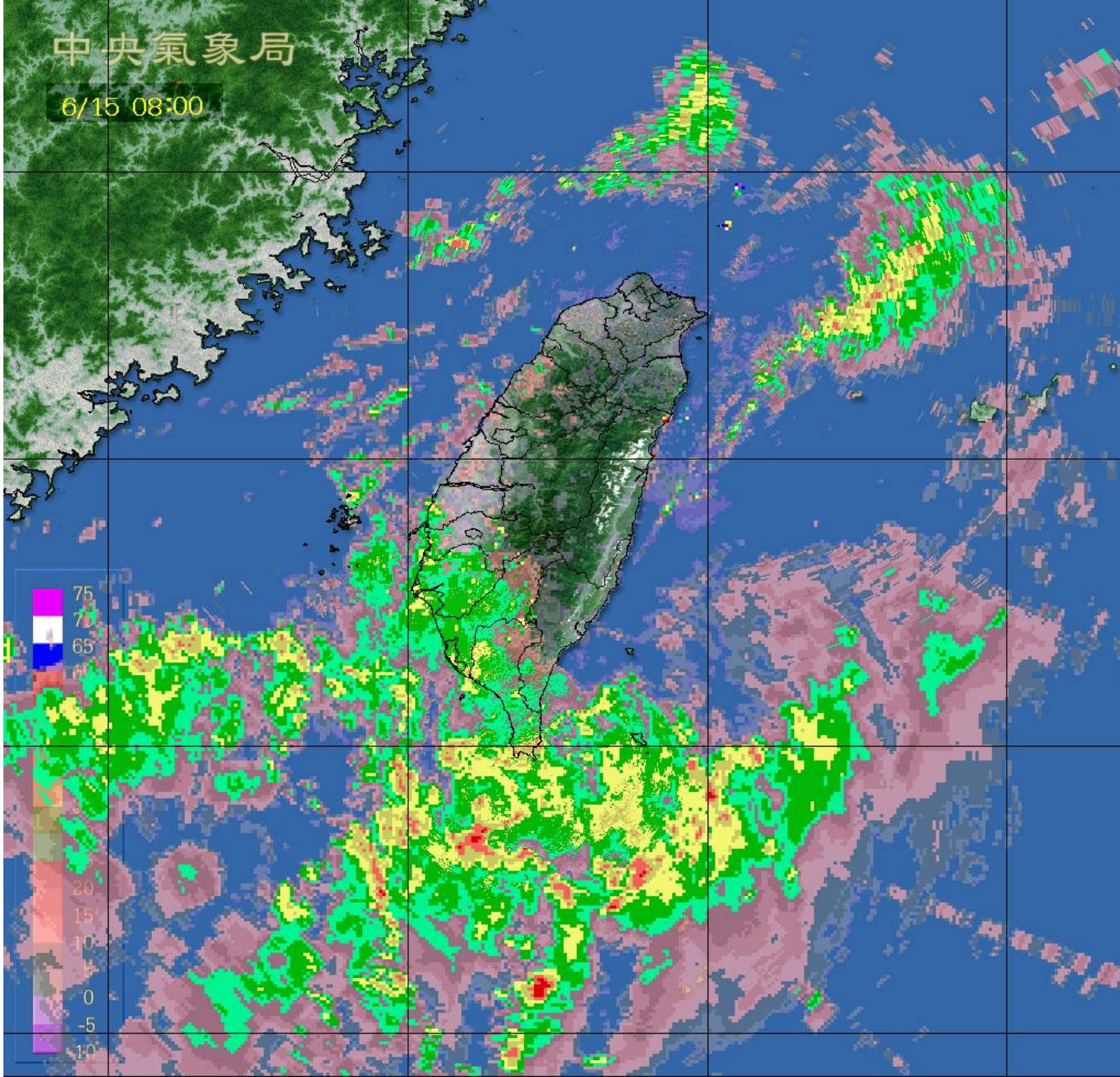
中央氣象局

6/15 02:00



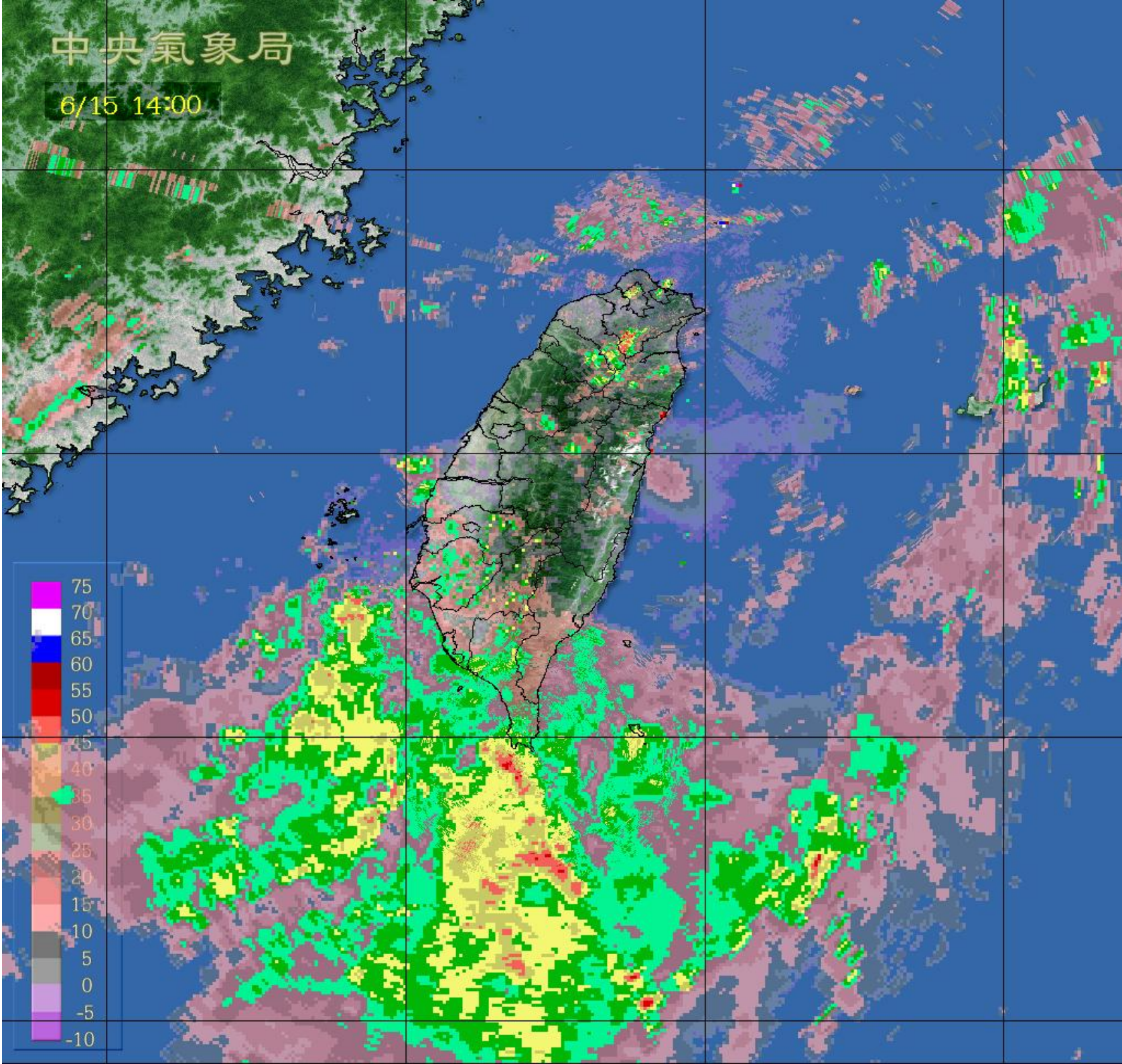
中央氣象局

6/15 08:00



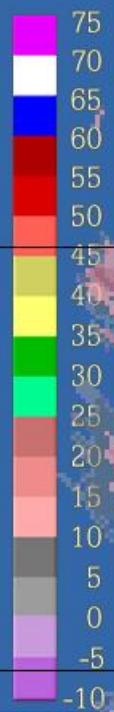
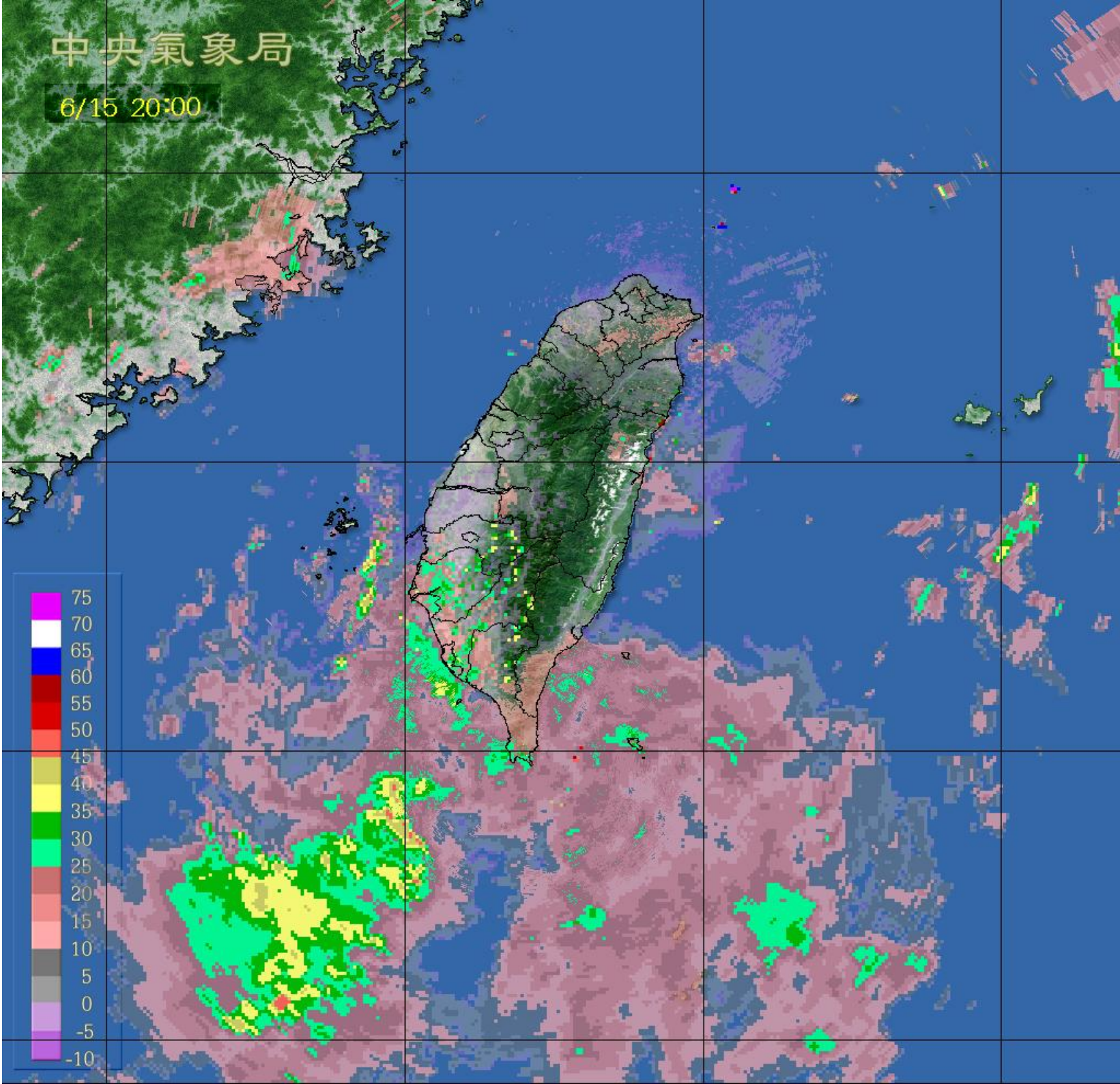
中央氣象局

6/15 14:00



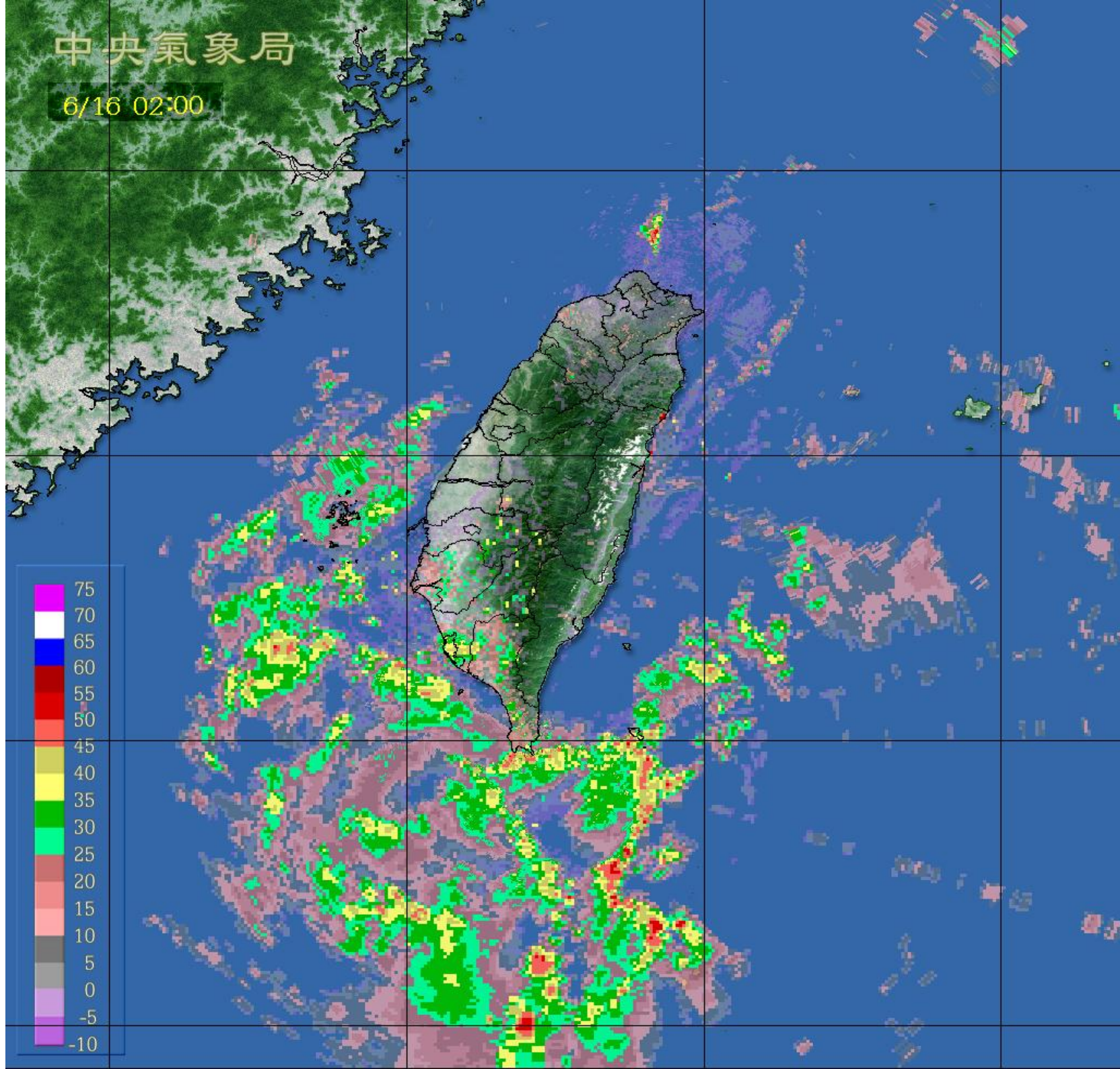
中央氣象局

6/15 20:00



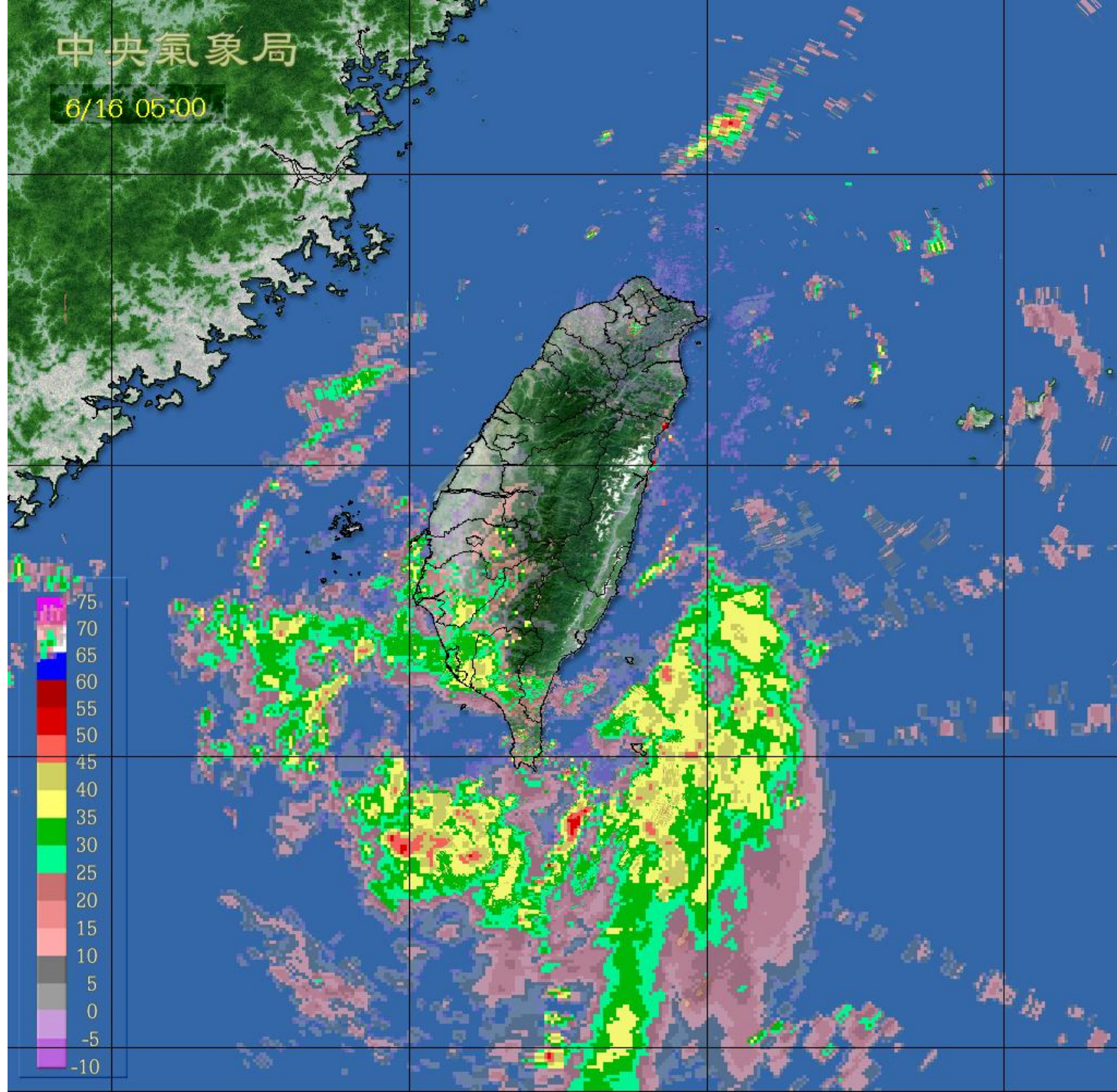
中央氣象局

6/16 02:00



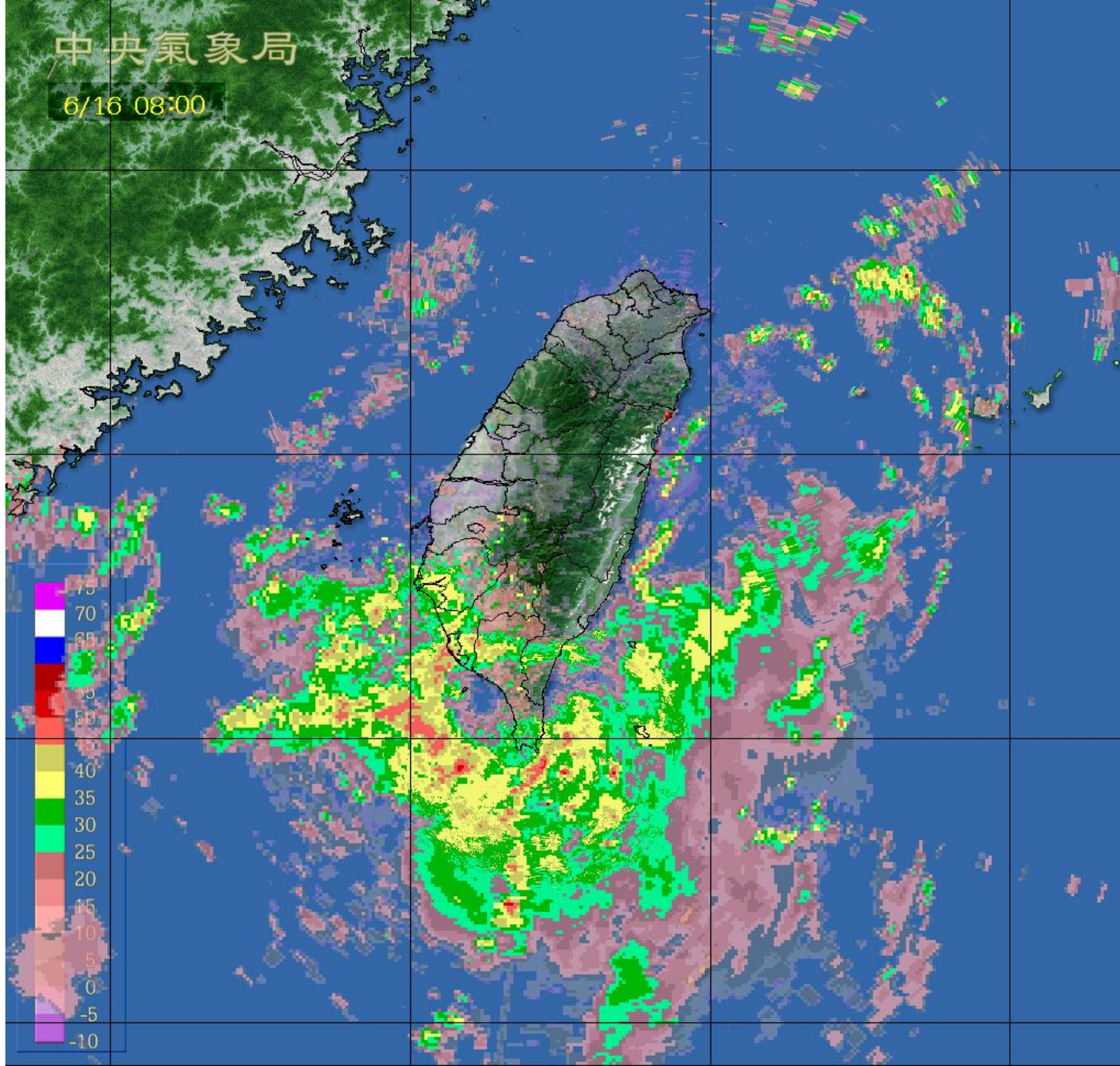
中央氣象局

6/16 05:00



中央氣象局

6/16 08:00

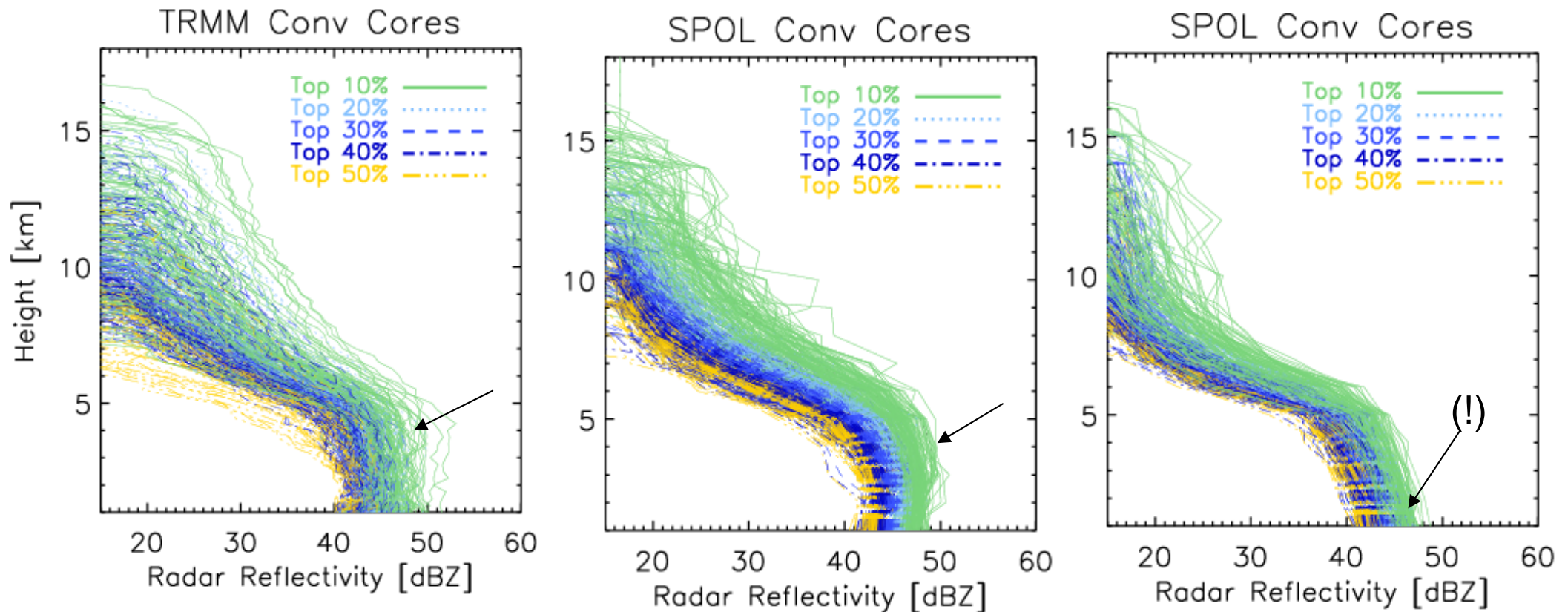


OUTLINE OF TALK

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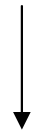
TRMM profiles and S-POL Profiles compare closely, on average

But there are important differences between the situations where reflectivity maximum is aloft, or close to the surface!

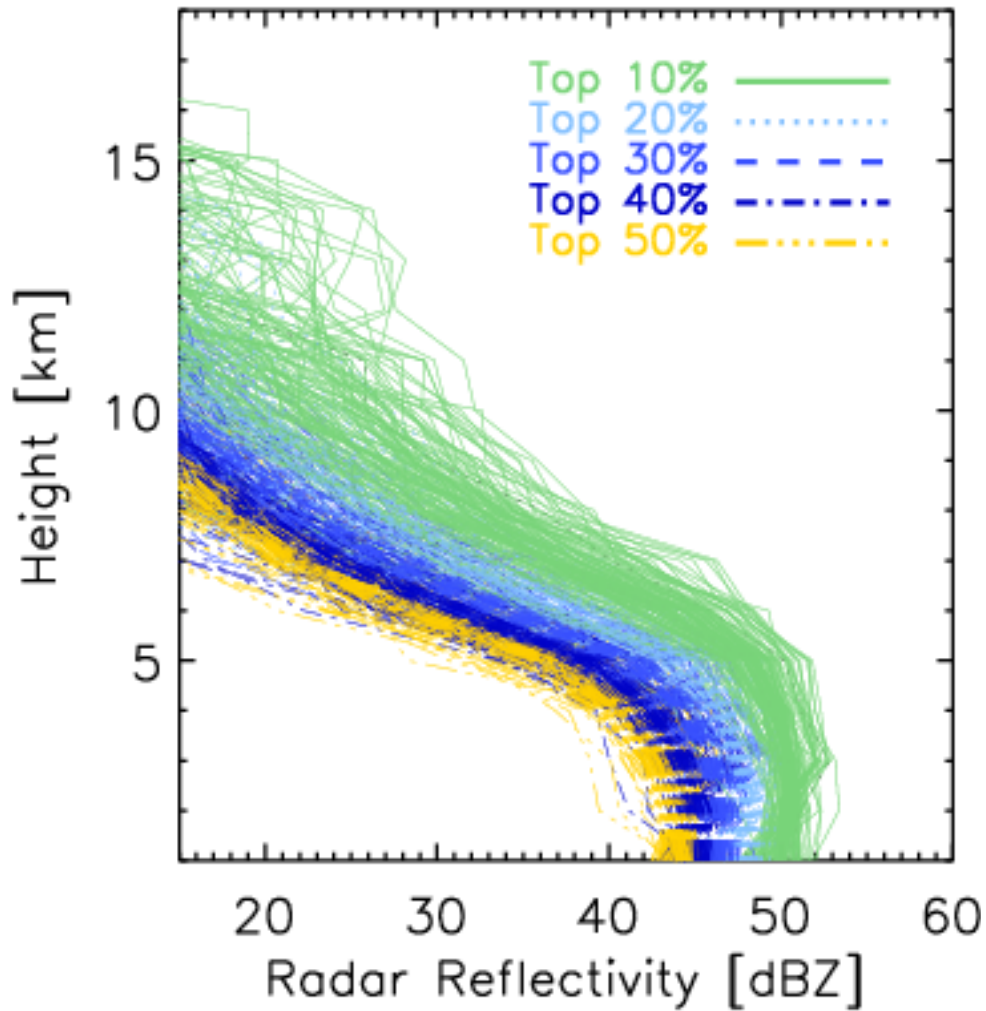


June 14, 2008

Looks more like over-land
Mei-Yu systems



SPOL Conv Cores

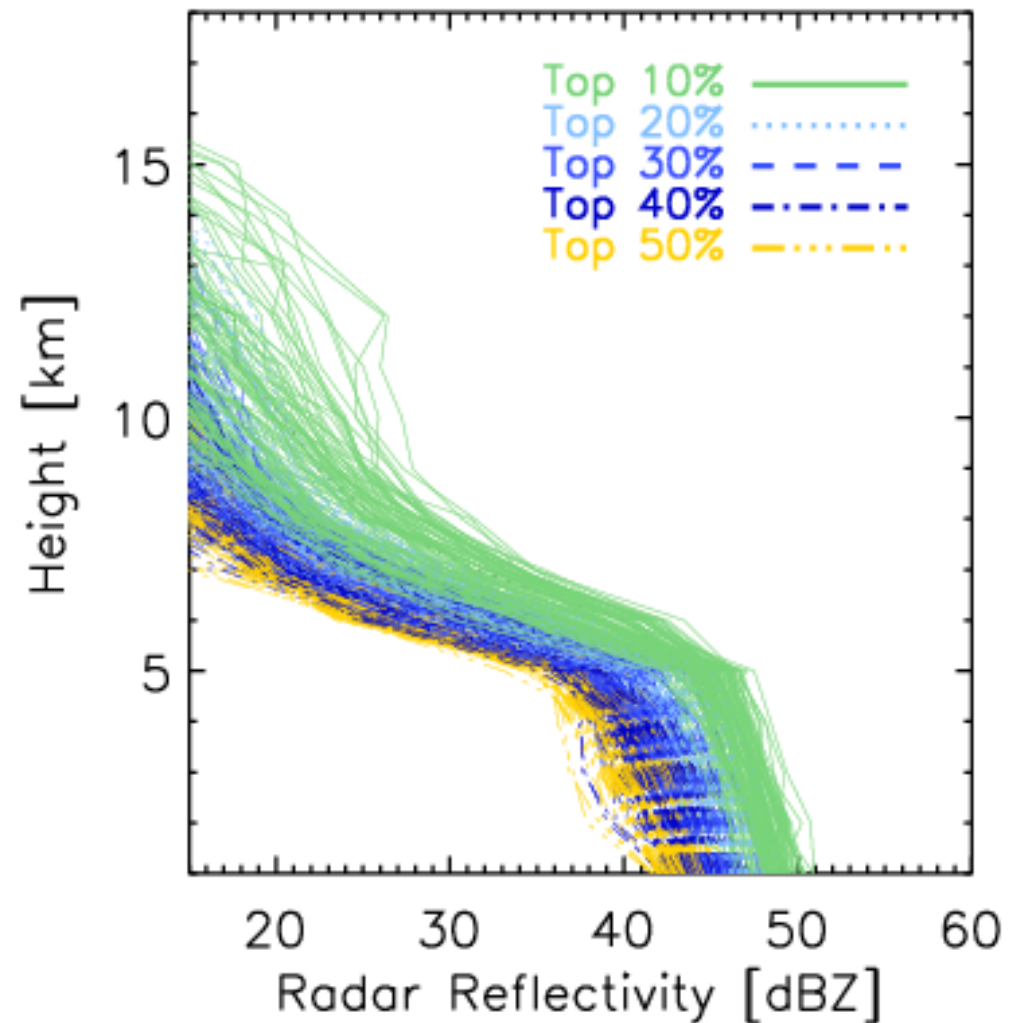


June 16, 2008

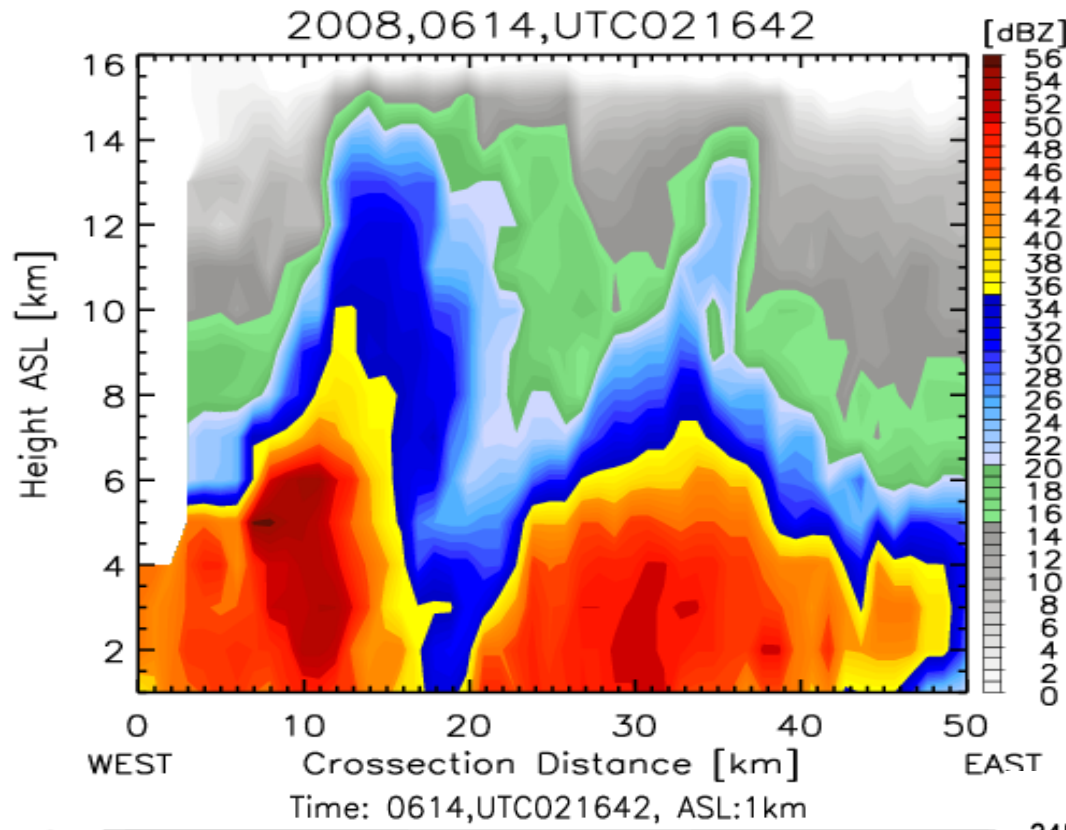
Looks more like oceanic
systems all over the world(!)



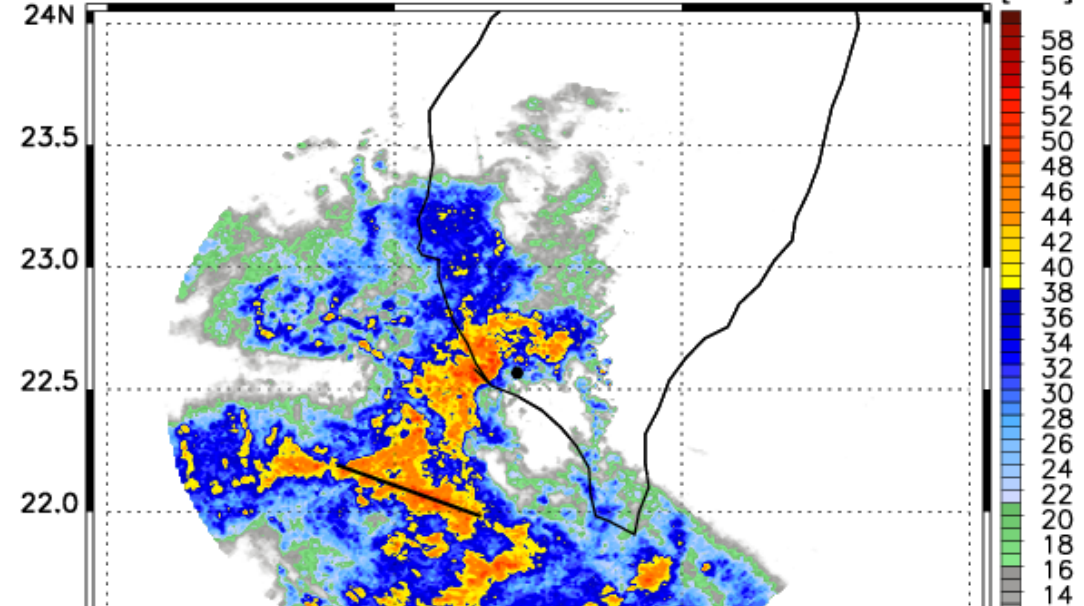
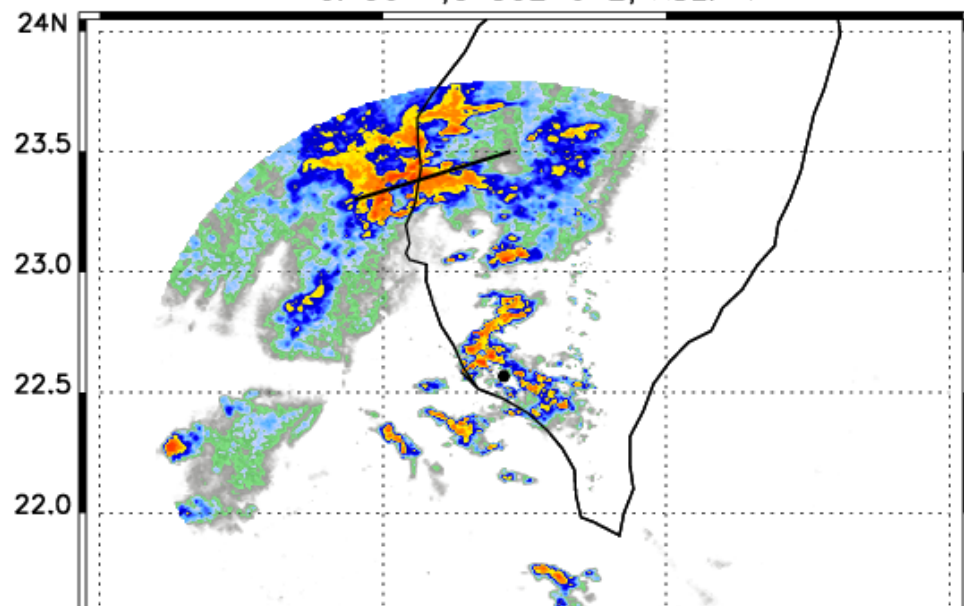
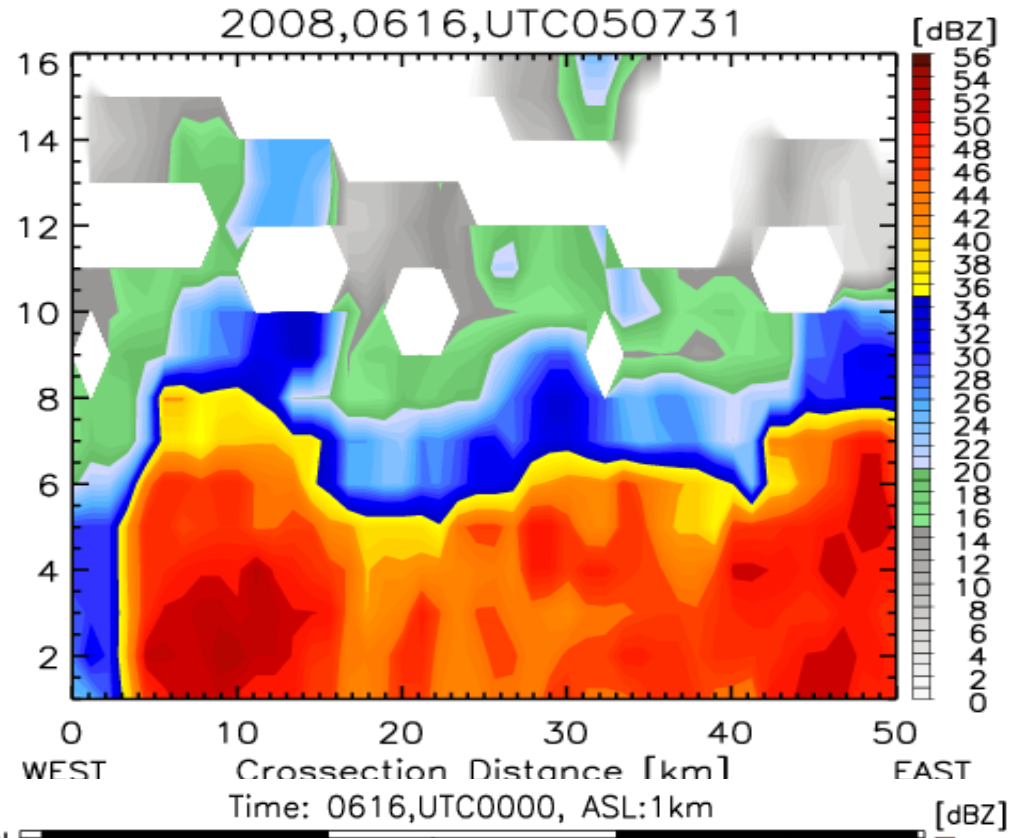
SPOL Conv Cores



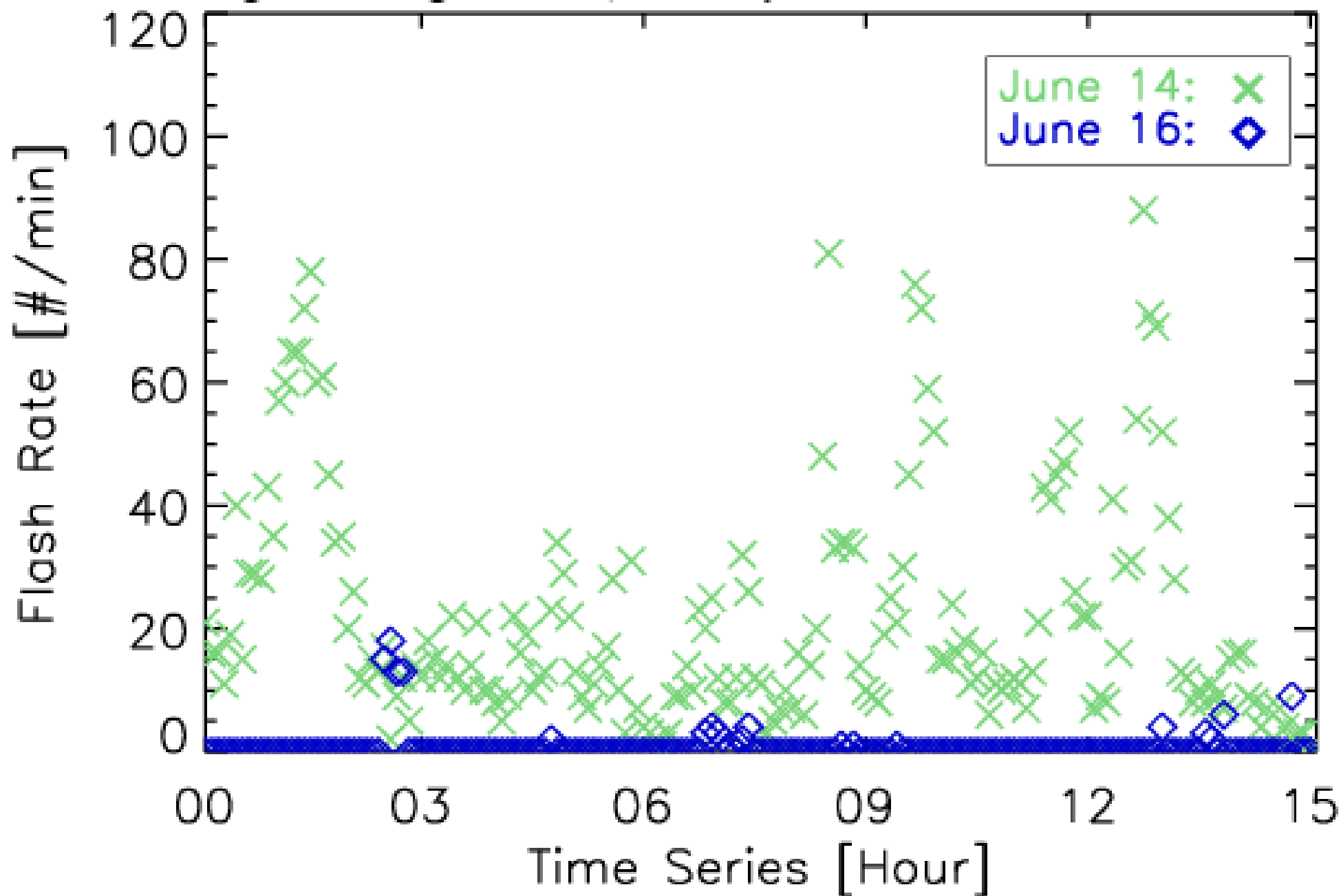
June 14 example



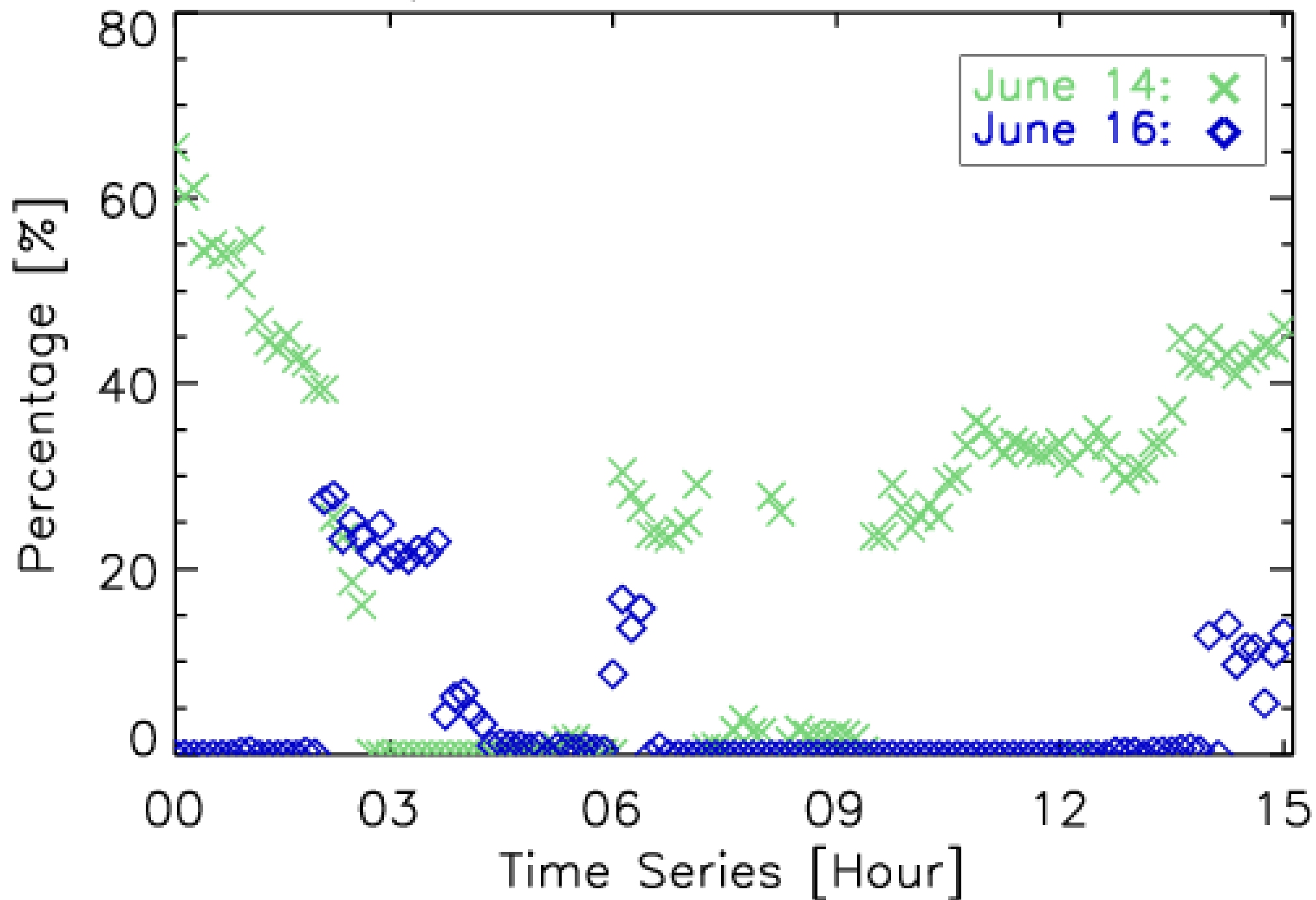
June 16 Example



Lightning Frequency in Radar Volume



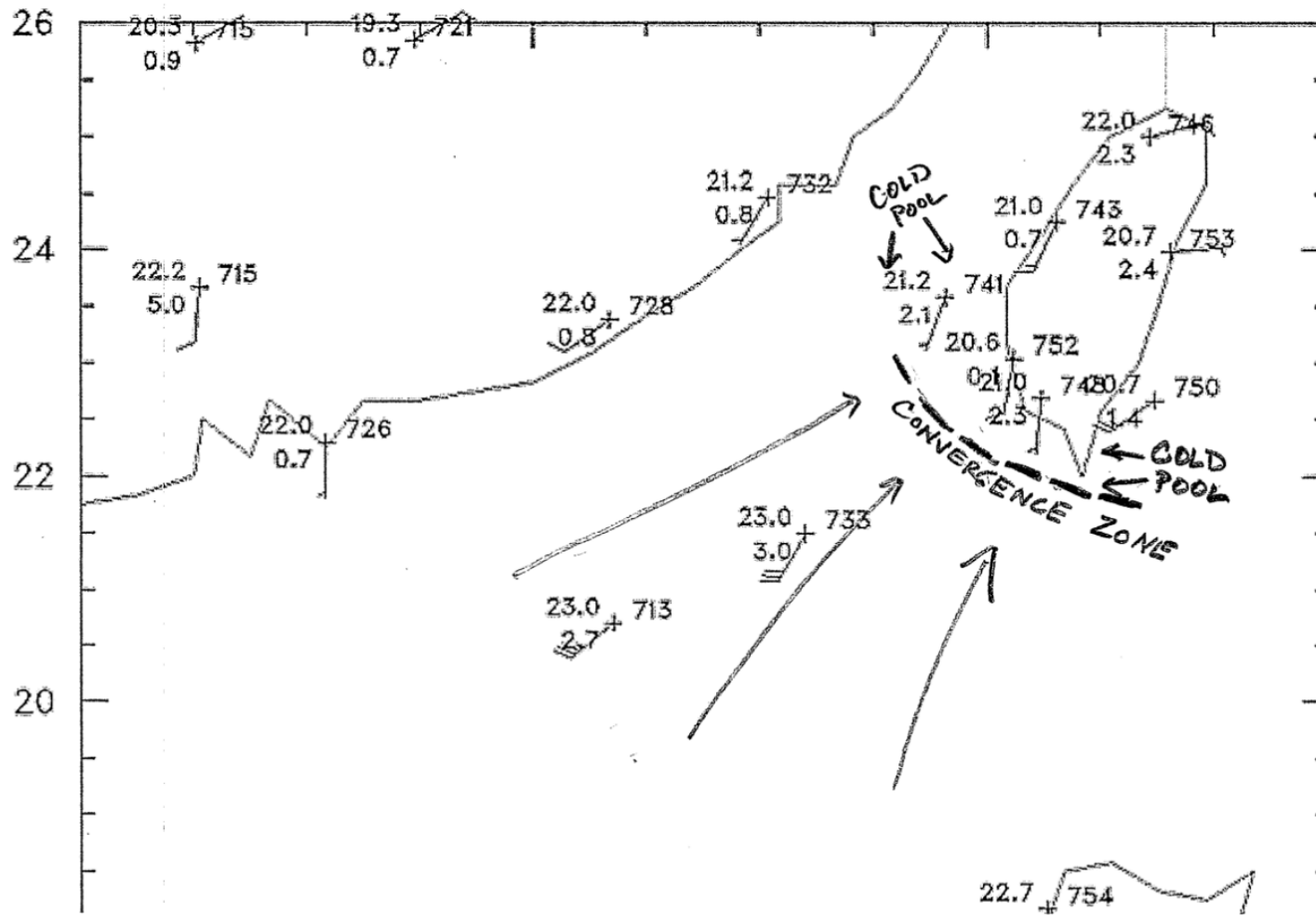
Precipitation-size Ice Particles

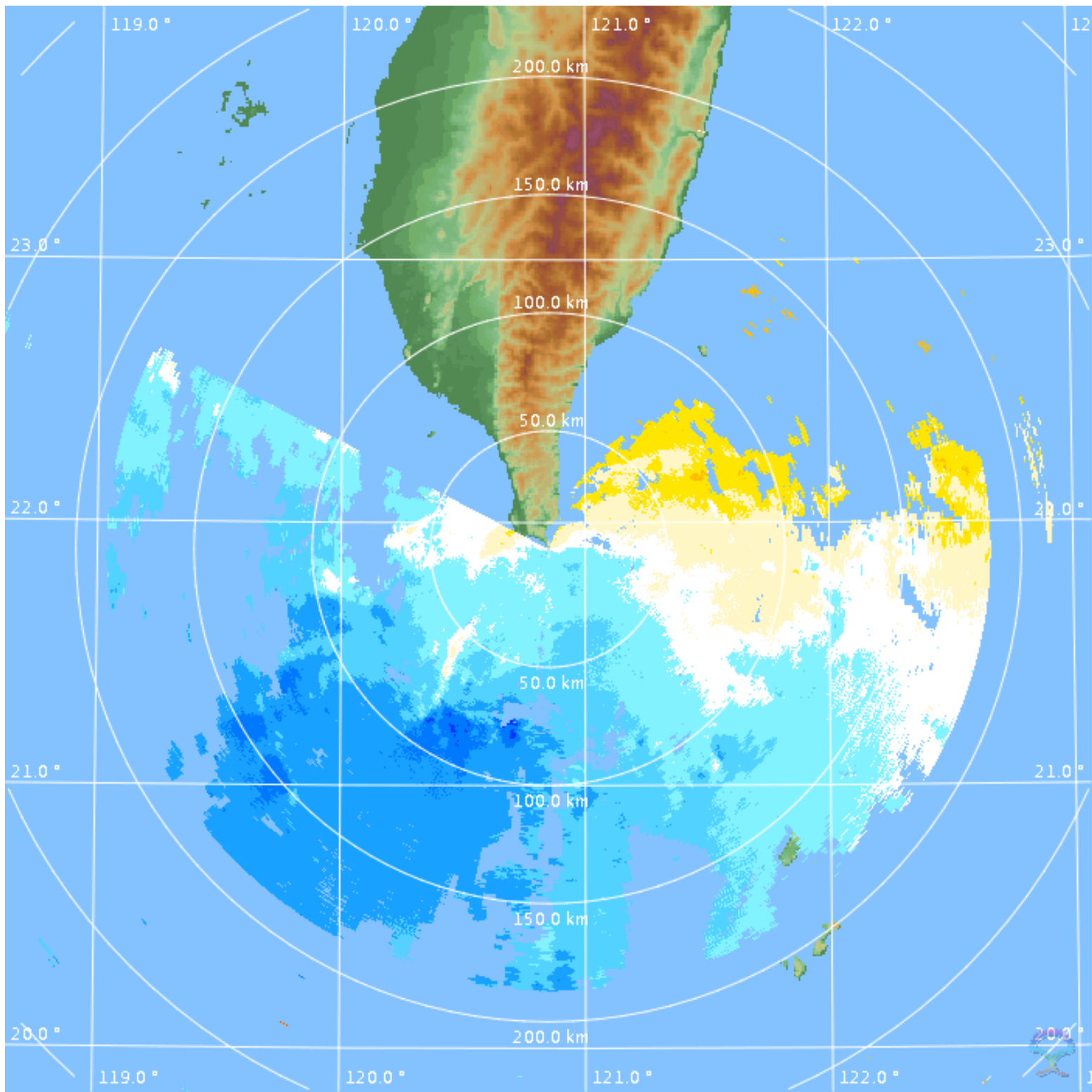


OUTLINE OF TALK

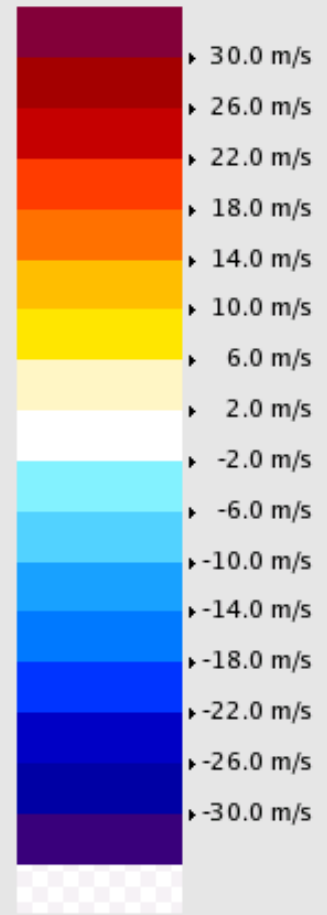
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CSU Analysis at 925 mb valid 0 UTC 16 June 2008

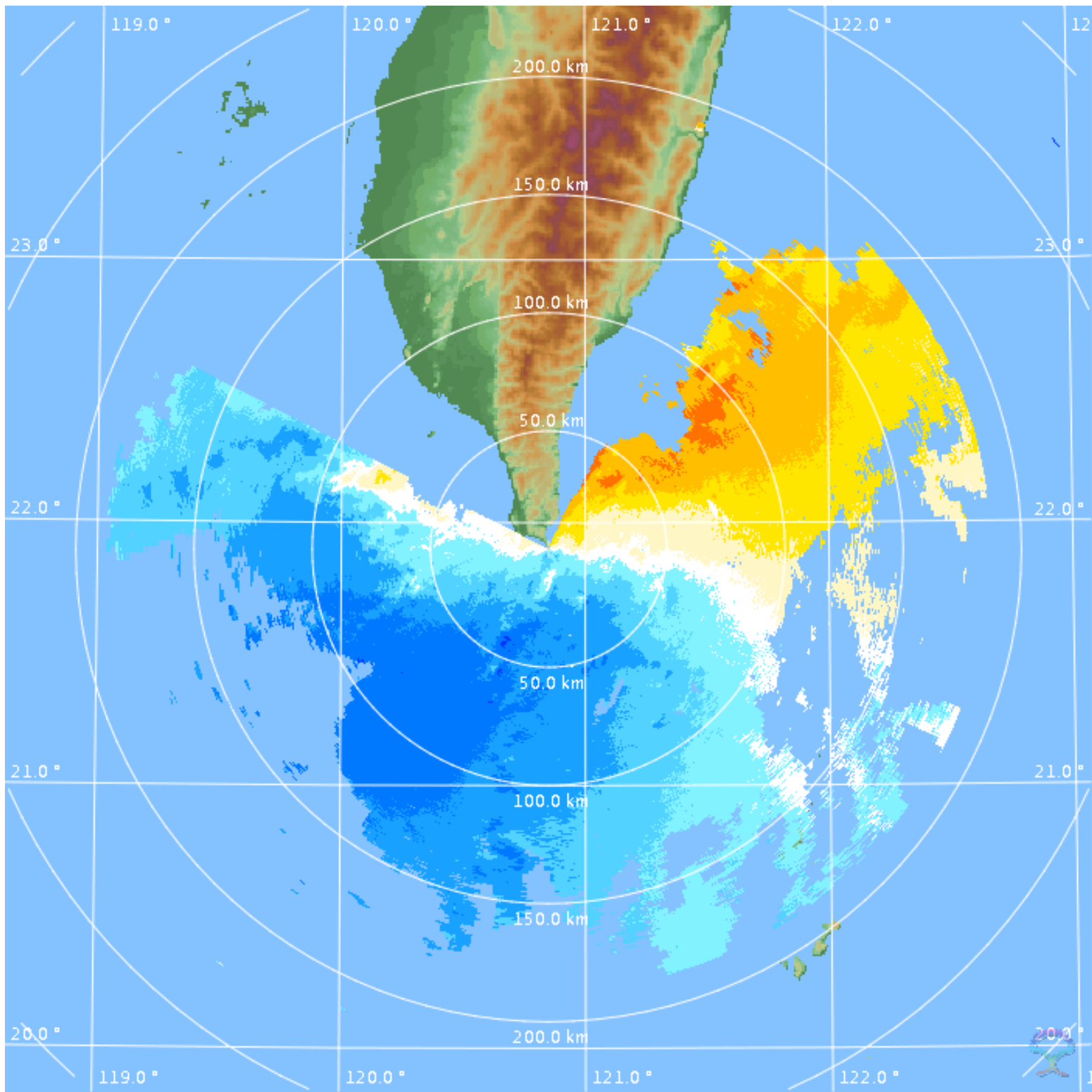




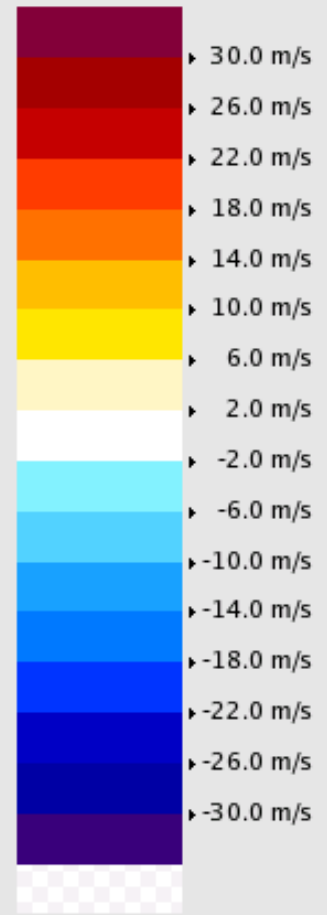
PPI (V)
23:54 / 14-Jun-2008
Kenting_rb5



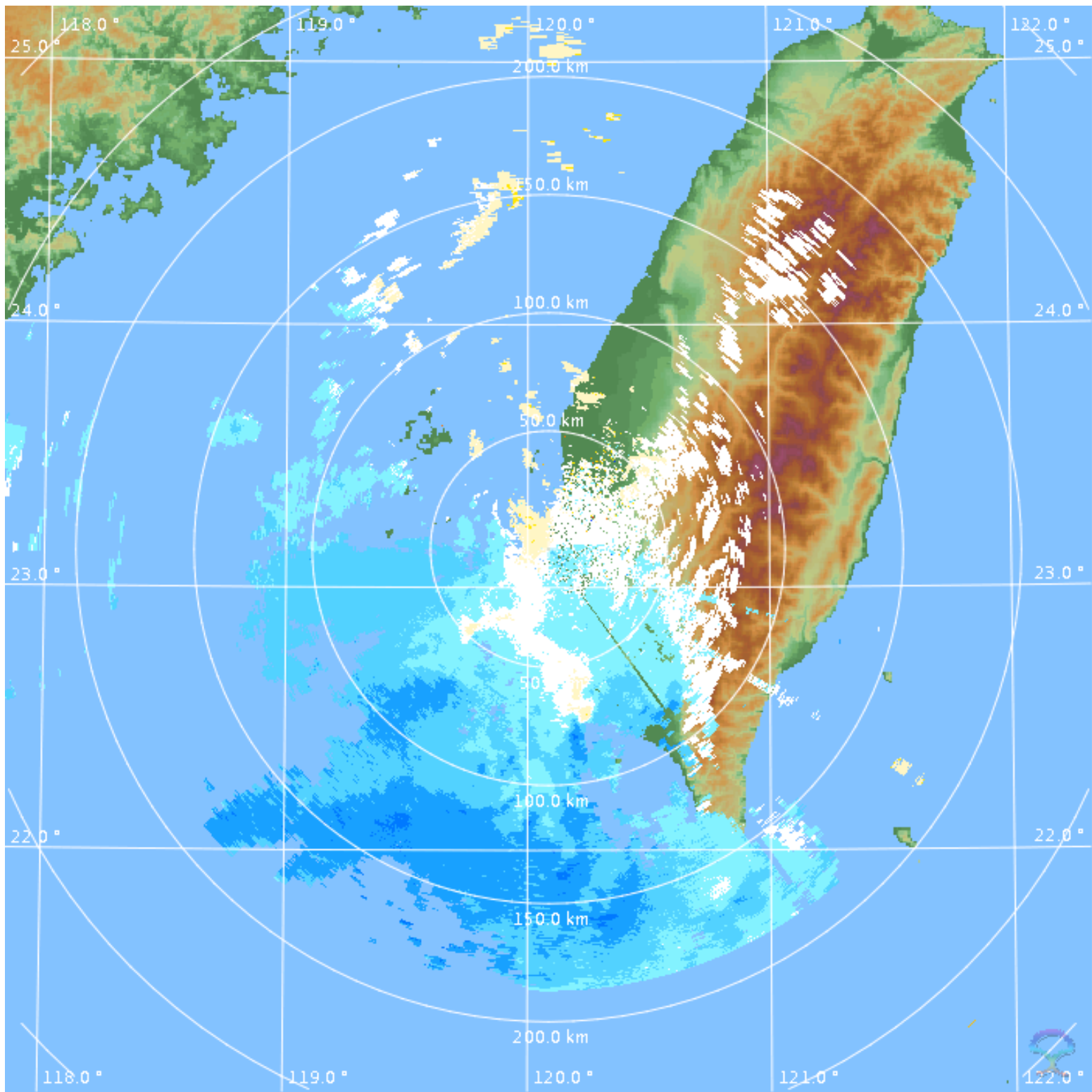
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PRF: 800 Hz
Range: 230 km
Resolution: 0.657 km/pixel
Elevation: 0.5 deg
Data: Radar Data
Rainbow® Gematronik



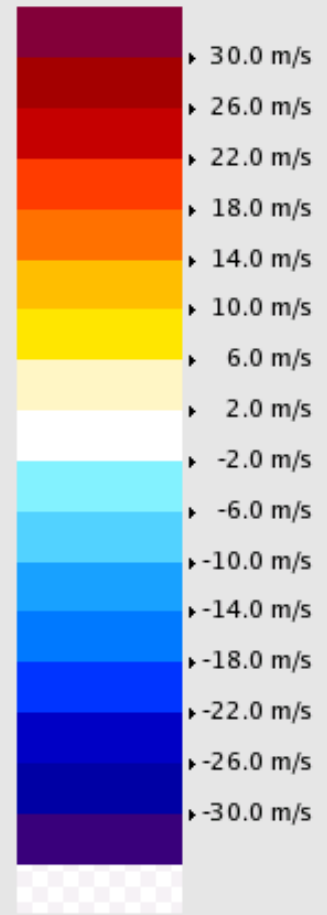
PPI (V)
23:54 / 15-Jun-2008
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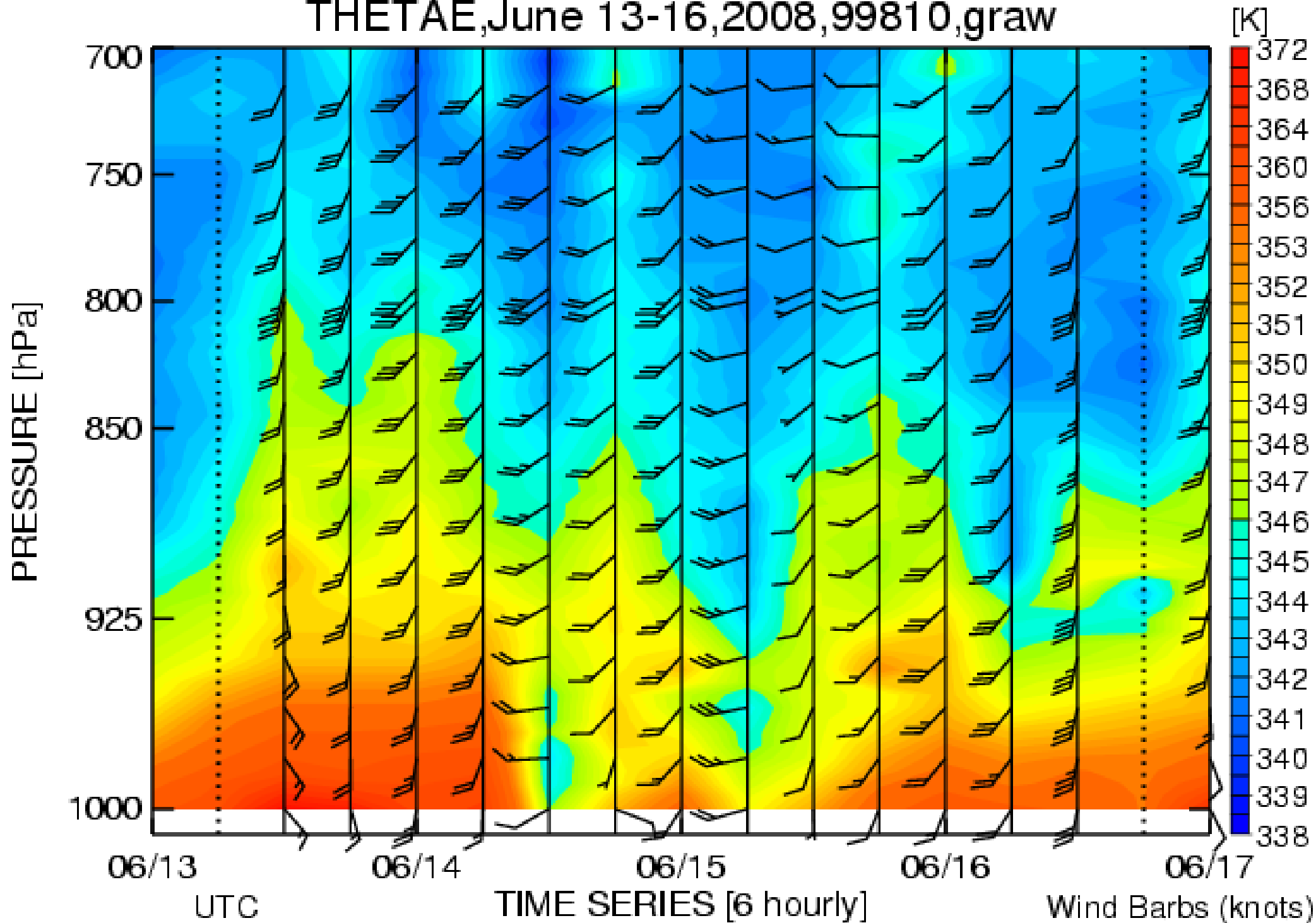


PPI (V)
23:54 / 15-Jun-2008
Chigu_rb5

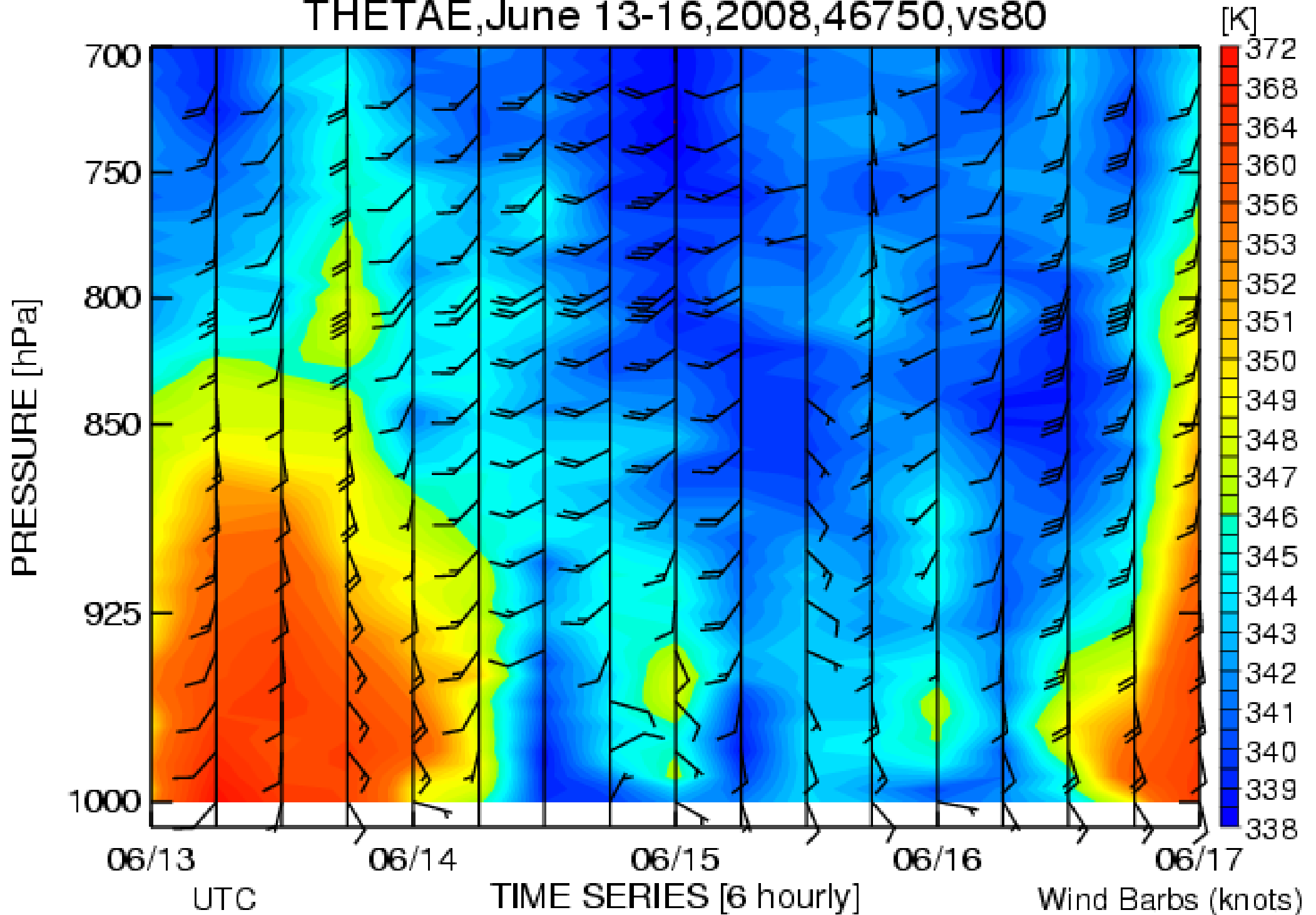


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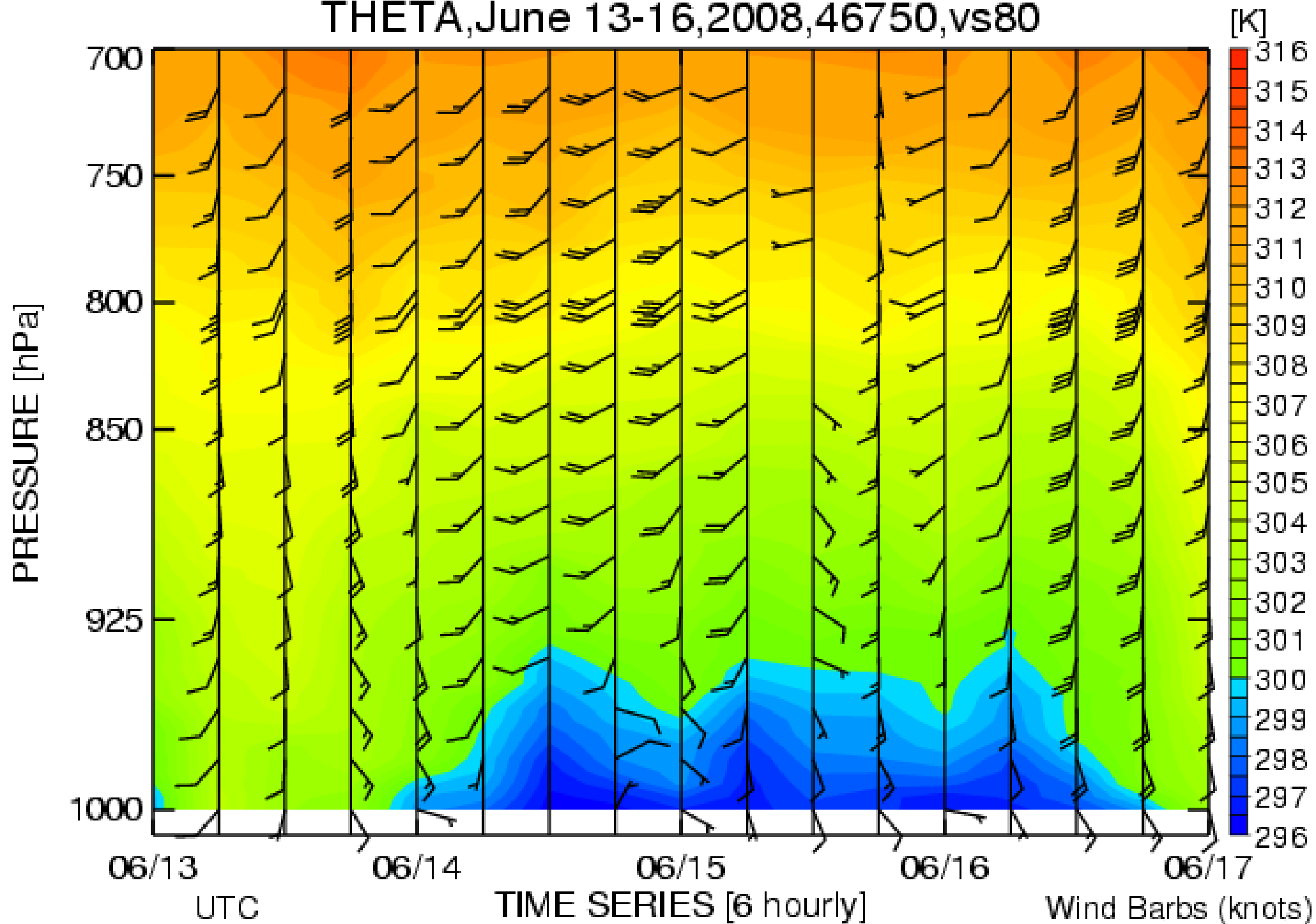
THETA E, June 13-16, 2008, 99810, graw



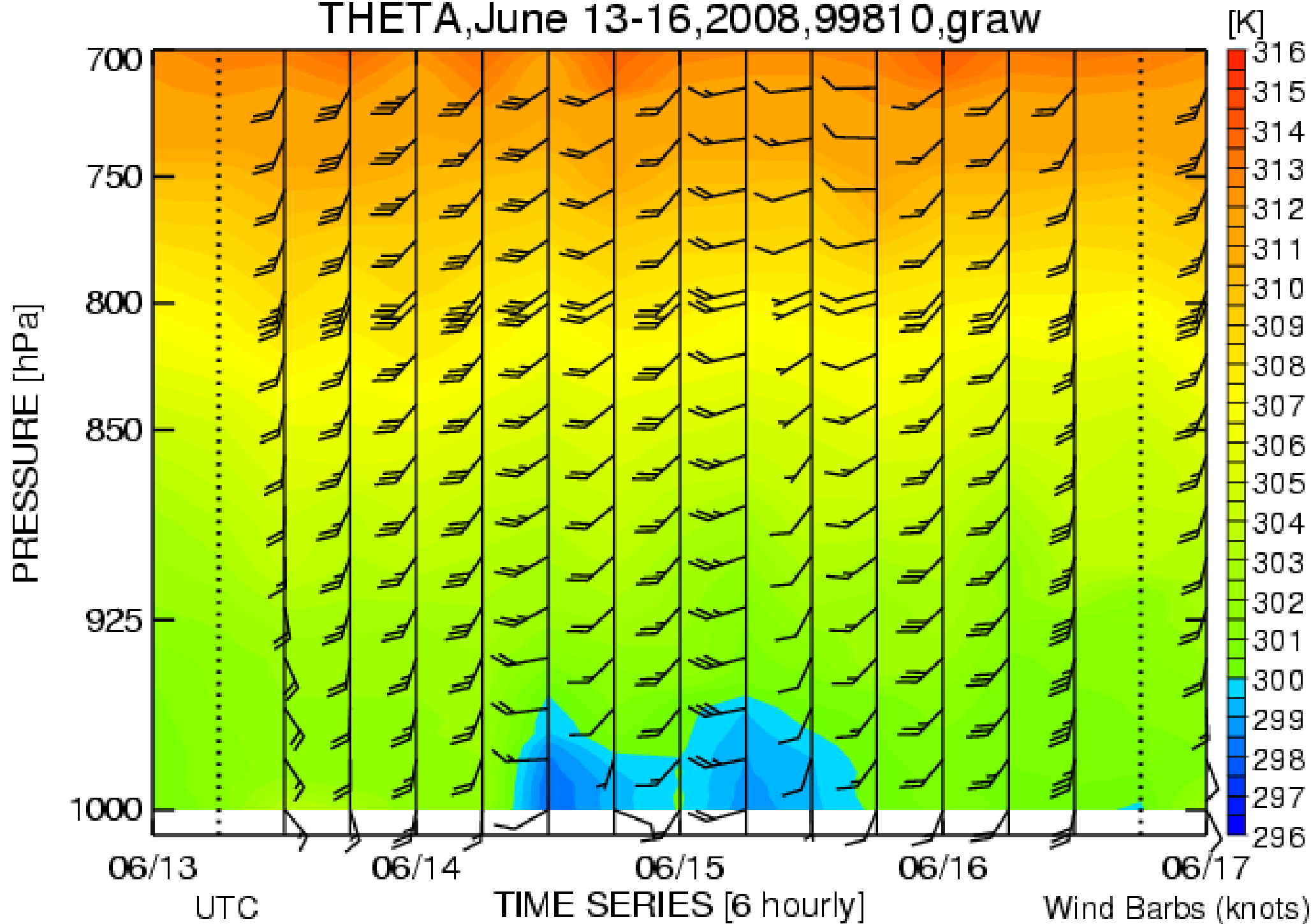
THETA E, June 13-16, 2008, 46750, vs80

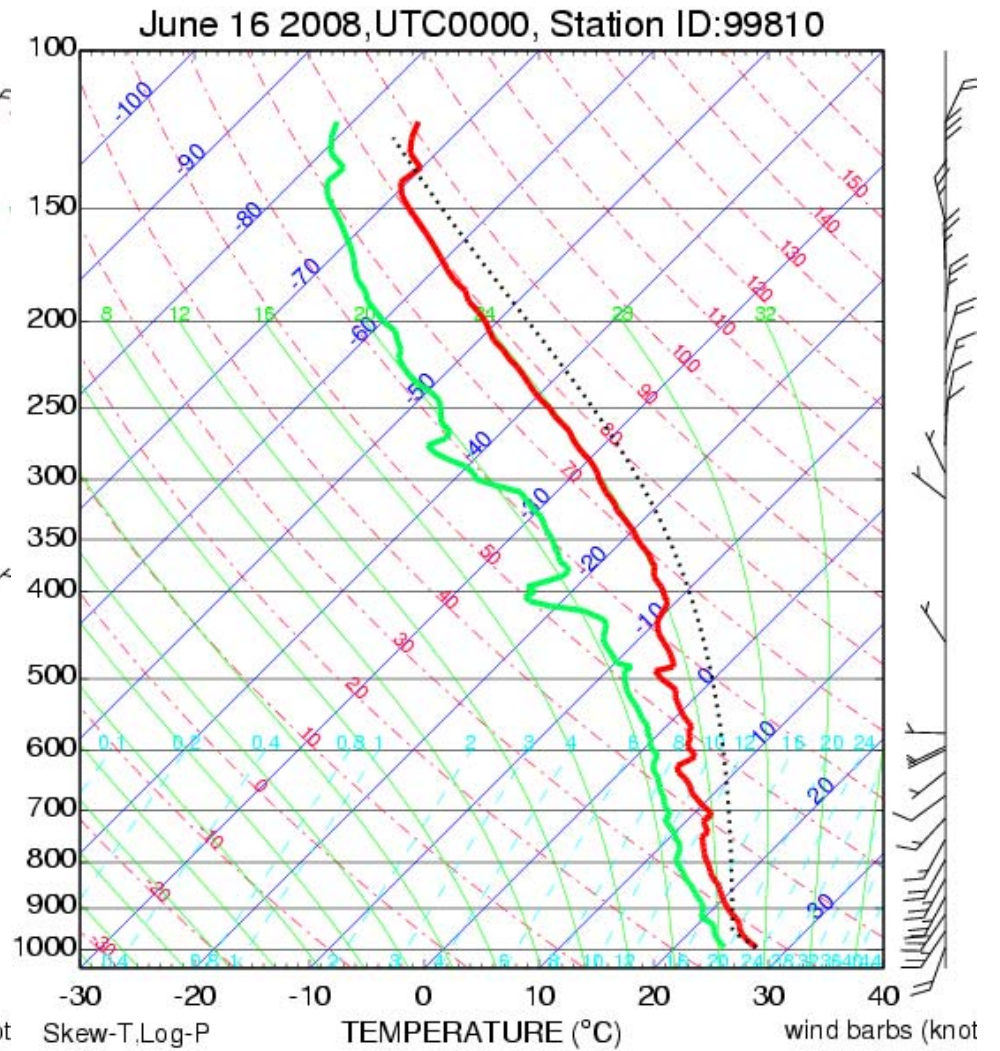
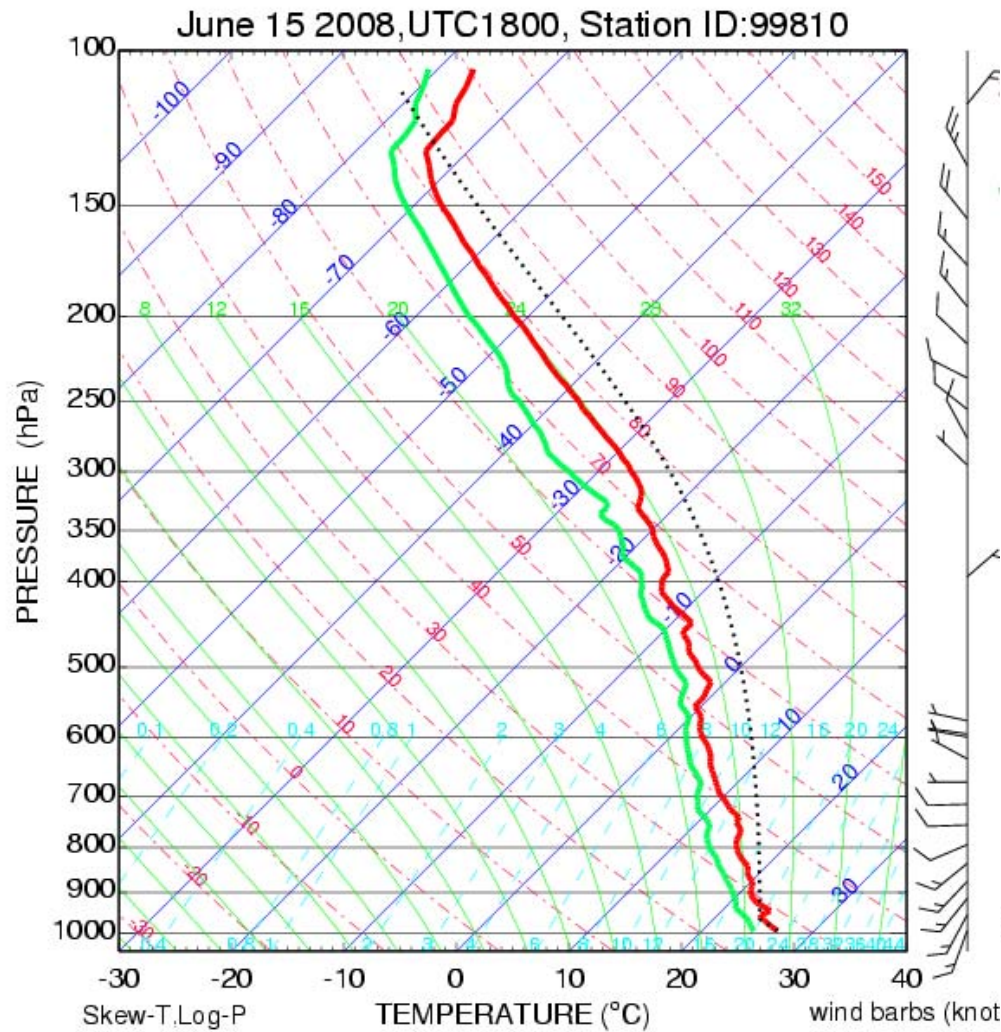


THETA, June 13-16, 2008, 46750, vs80



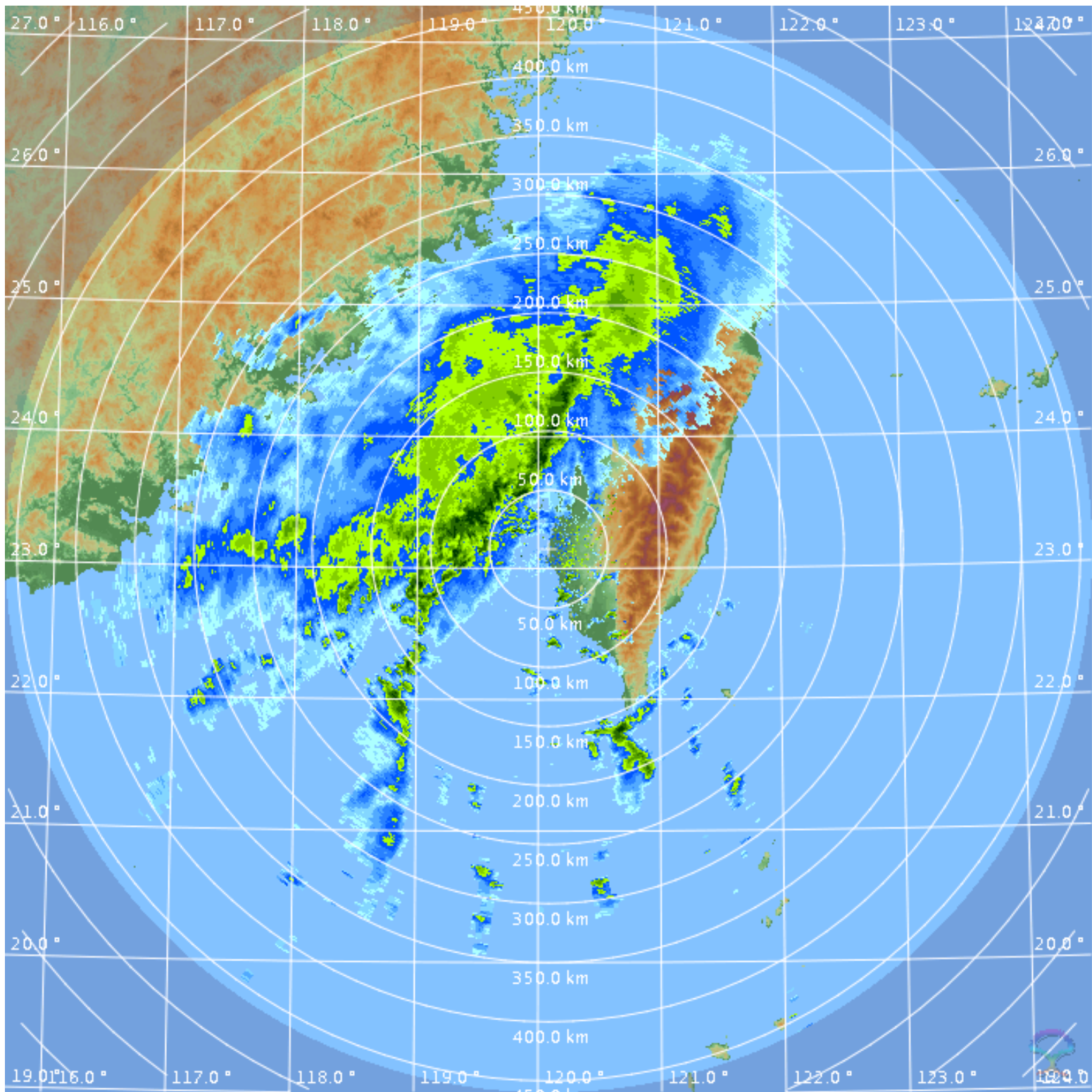
THETA, June 13-16, 2008, 99810, graw



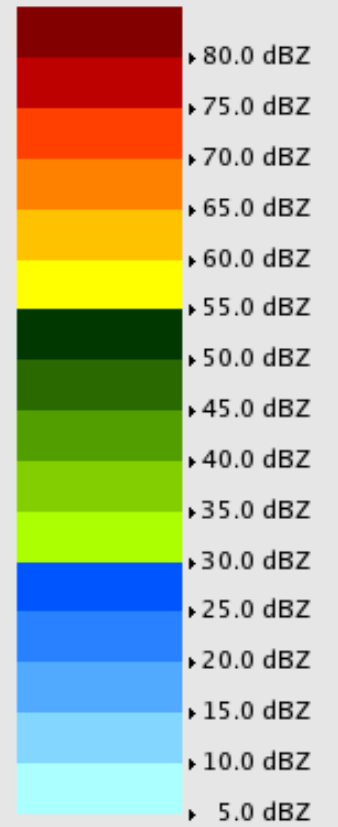


SUMMARY

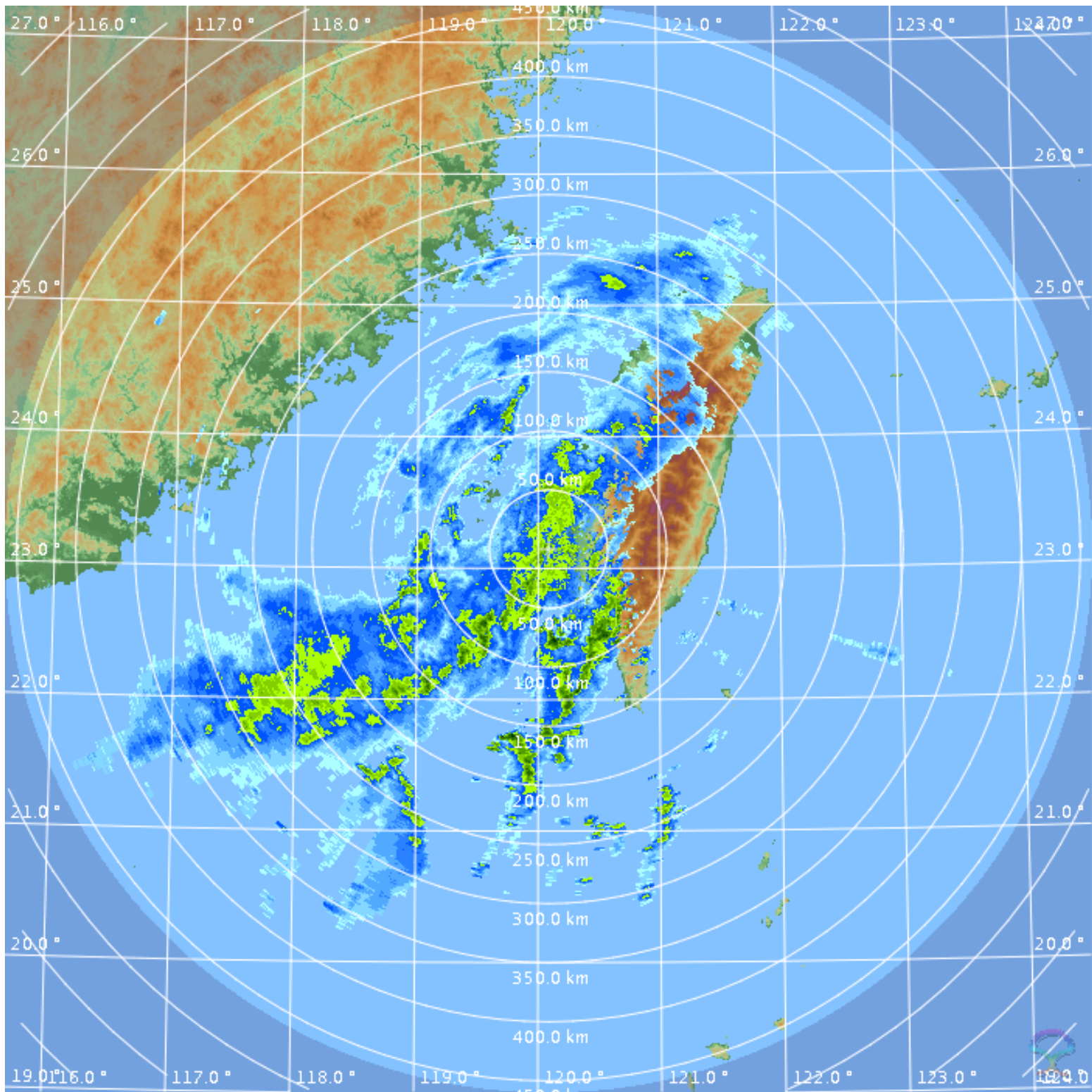
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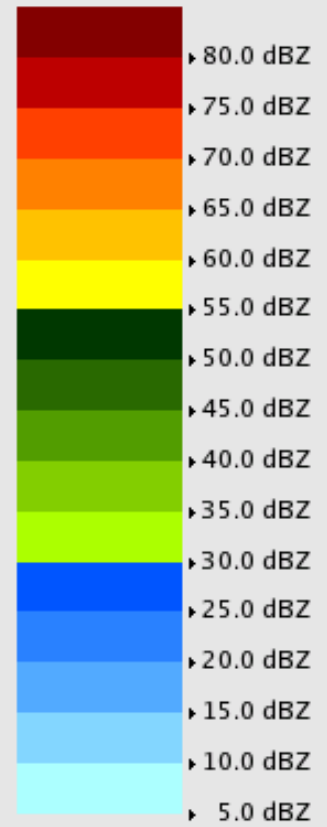
PPI (dBZ)
00:00 / 14-Jun-2008
Chigu_rb5



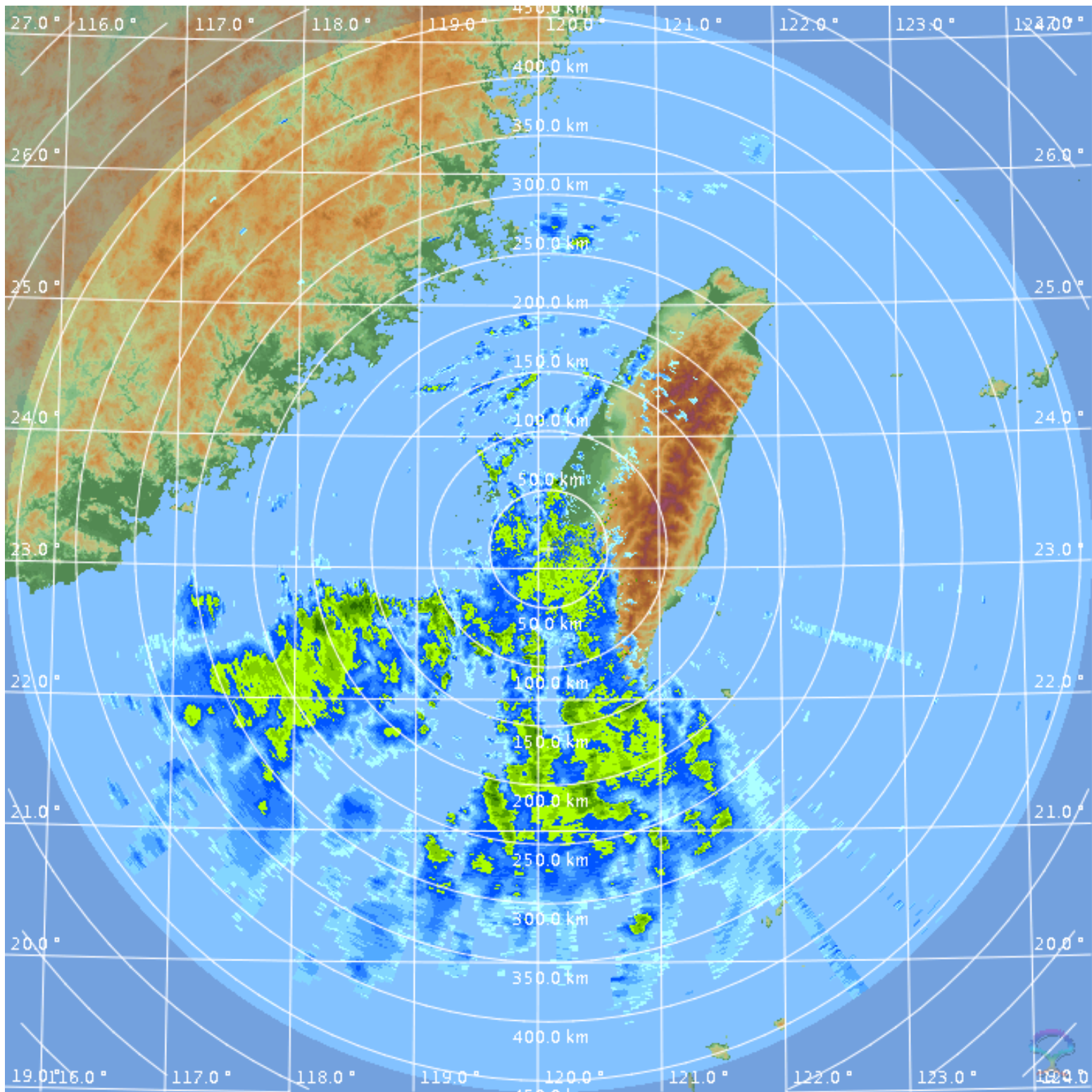
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 Elevation: 0.5 deg
 Data: Radar Data
 Rainbow® Gematronik



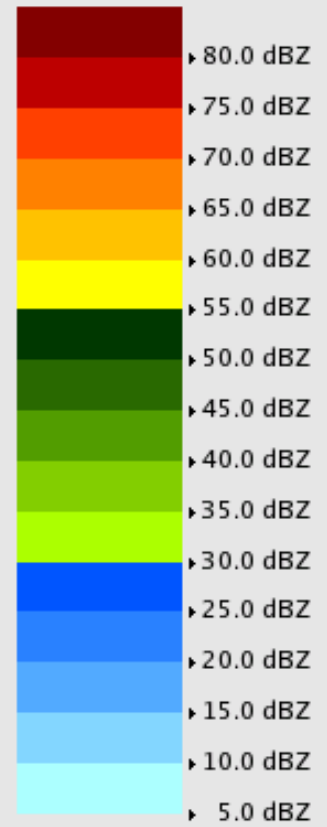
PPI (dBZ)
12:00 / 14-Jun-2008
Chigu_rb5



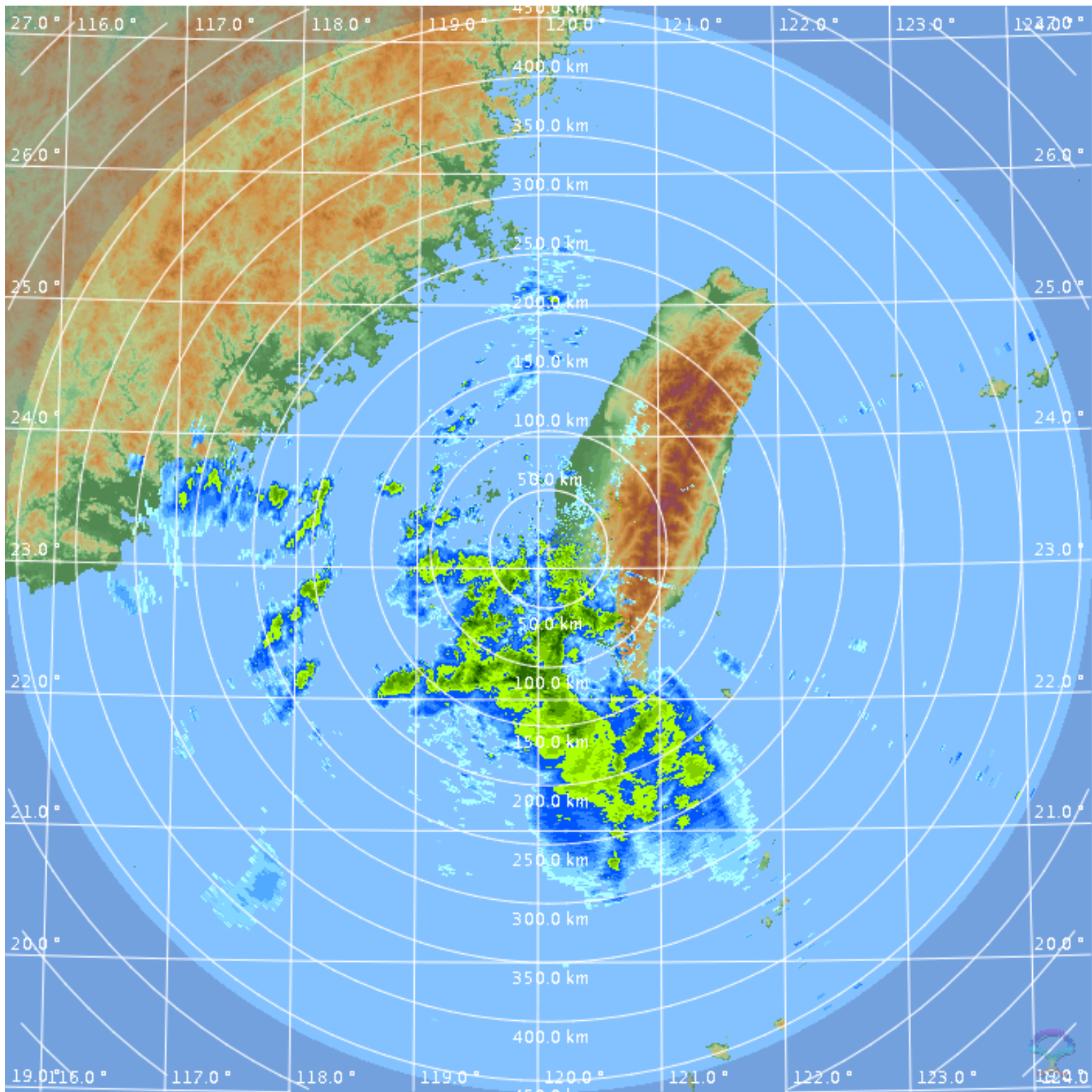
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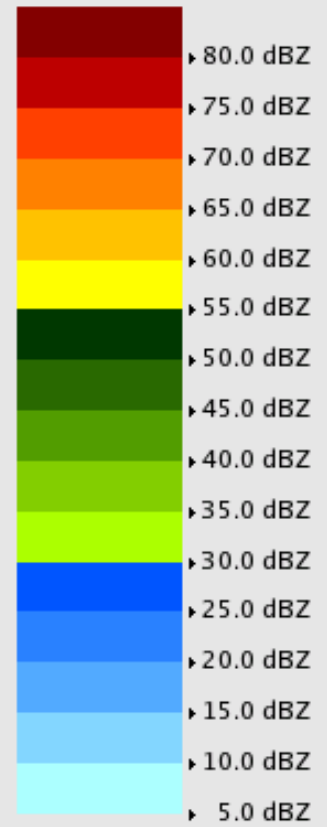
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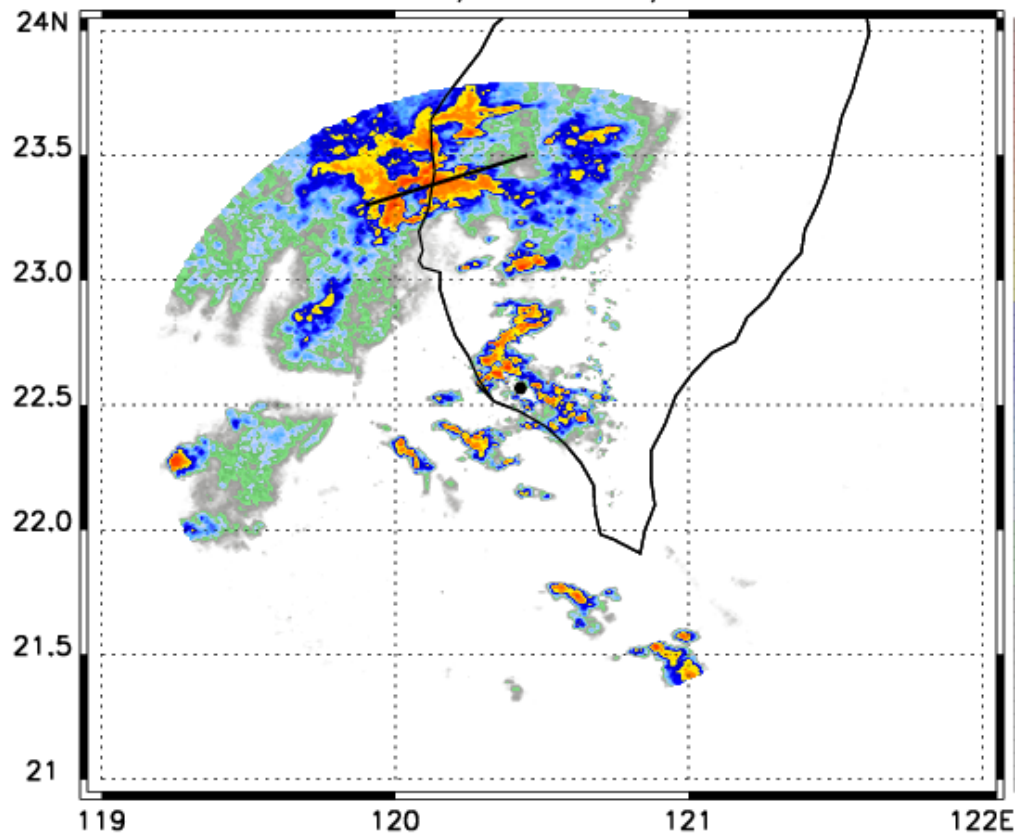


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23:53 / 15-Jun-2008
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 Data: Radar Data
 Rainbow® Gematronik

Time: 0614,UTC021642, ASL:1km



Time: 0616,UTC0000, ASL:1km

