

20181003

Morning Shift (9A-1P L)

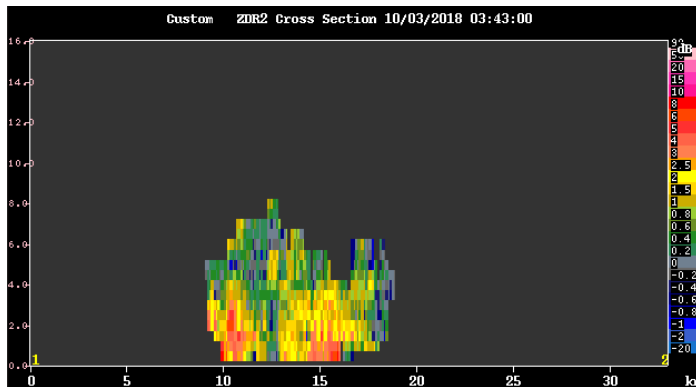
Ben Trabing

0000 – Continue FAR scanning with no convection nearby.

Afternoon Shift (12P-9P L)

Weixin

0330 – Stay in the FAR scanning mode. Only scattered warm rain showers appeared around the area. Some of these showers showed large rain drop signatures. ZDR reaches 3-4 dBZ below 2km, but high ZDR zone never extends above the freezing level. A photo was taken toward this intense rain shower too.



0745 – Schedule to run FAR_S and SURVEILLANCE scans, as there is virtually no convection near by.

0930 – Run a SURVEILLANCE scan to check convection further out. Only scattered convection appears within 300km radius of the radar.

0945 – Switch to FAR PPI scans, with increasing scattered convection within the domain.

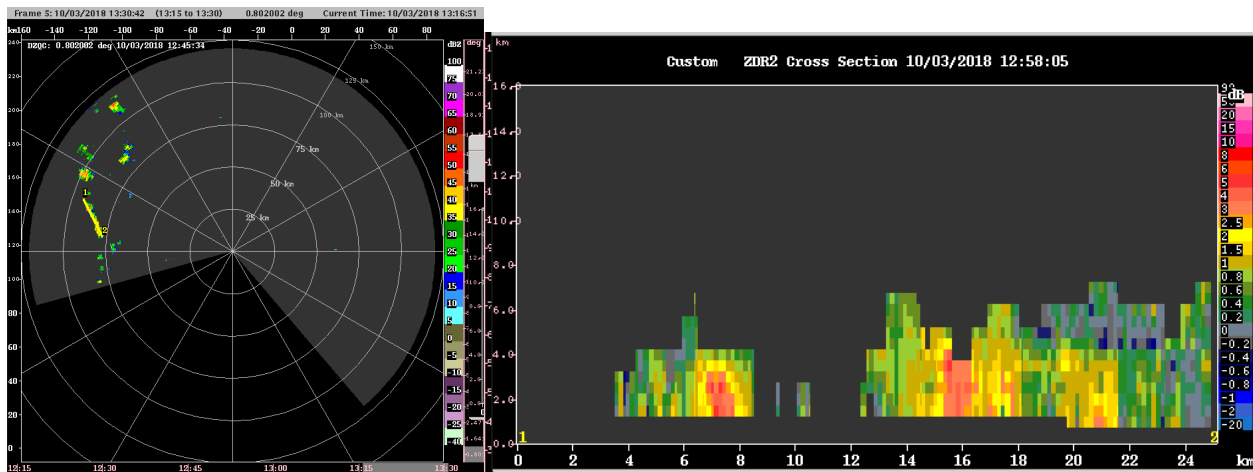
Night Shift (9P-4A L)

Naufal Razin

1157 – Weixin saw lightning outside. Surveillance scan shows convection to the west and north, more than 200 km away

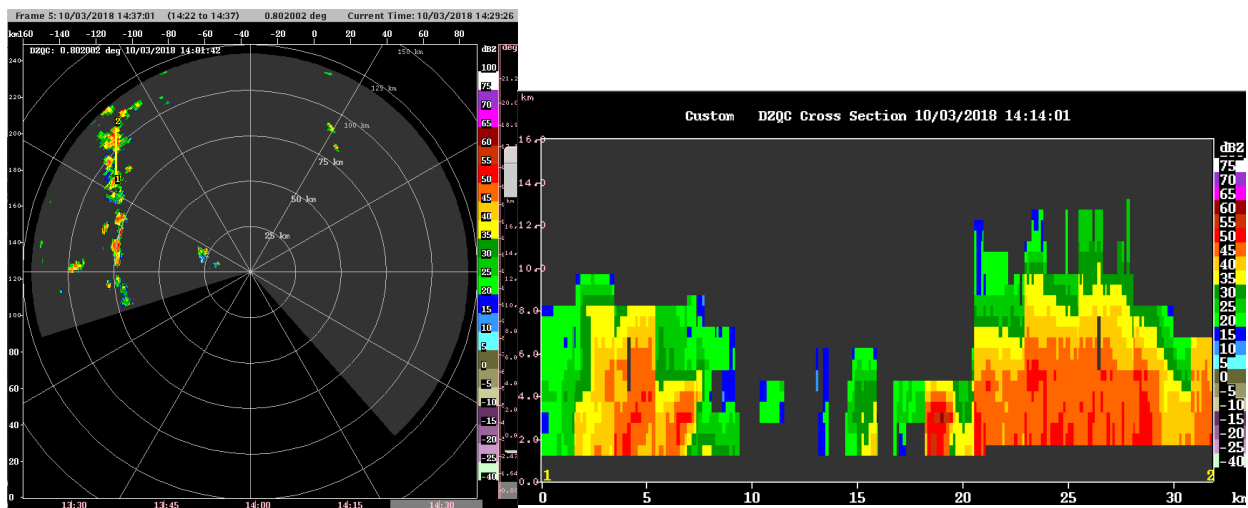
1227 – Line of shallow convection can be seen to our west. Reflectivity values of 35 dBZ up to 6 km are present in this line.

1315 – Shallow convection to the west have really high ZDR (up to 4-5 dB). Reflectivity of 50 dBZ also coincident with high ZDR.



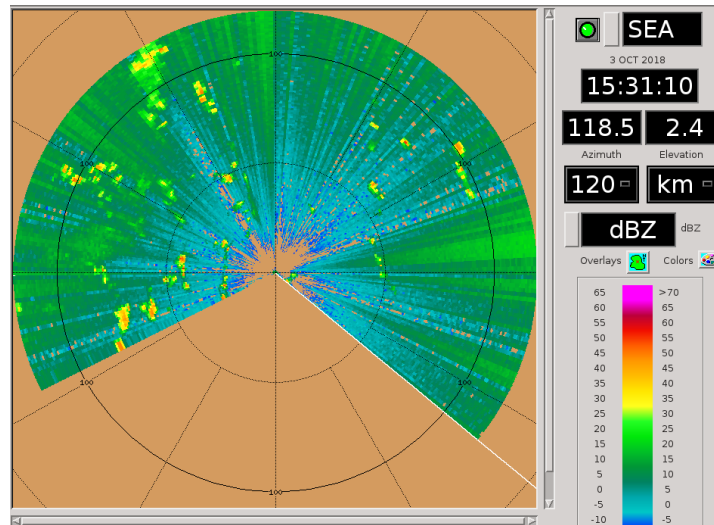
1357 – Shallow convection has been persisting

1429 – Deeper convection observed, associated with the line of shallow convection. Echo tops reach up to 12 km.



1455 – Interesting note: The shallow convection were persistent since they were first logged. They have steadily grown into deeper convection, still maintaining their quasi-linear structure. What's the forcing mechanism for these convection? Why do they last so long? What gives them this quasi-linear structure?

1530 – Quasi-linear convection have dissipated. Precipitation now appear more scattered.



1840 – Mostly scattered precipitation, still. Some echo tops reach 10 km in these scattered cells.

Morning Shift (4A-9A L)
Ben Trabing

1900 -- There are a few isolated shallow cells tot eh north of the radar, continue FAR with intermittent surveillance scans.

2020 – The isolated shallow cells north of the radar have all dissipated.