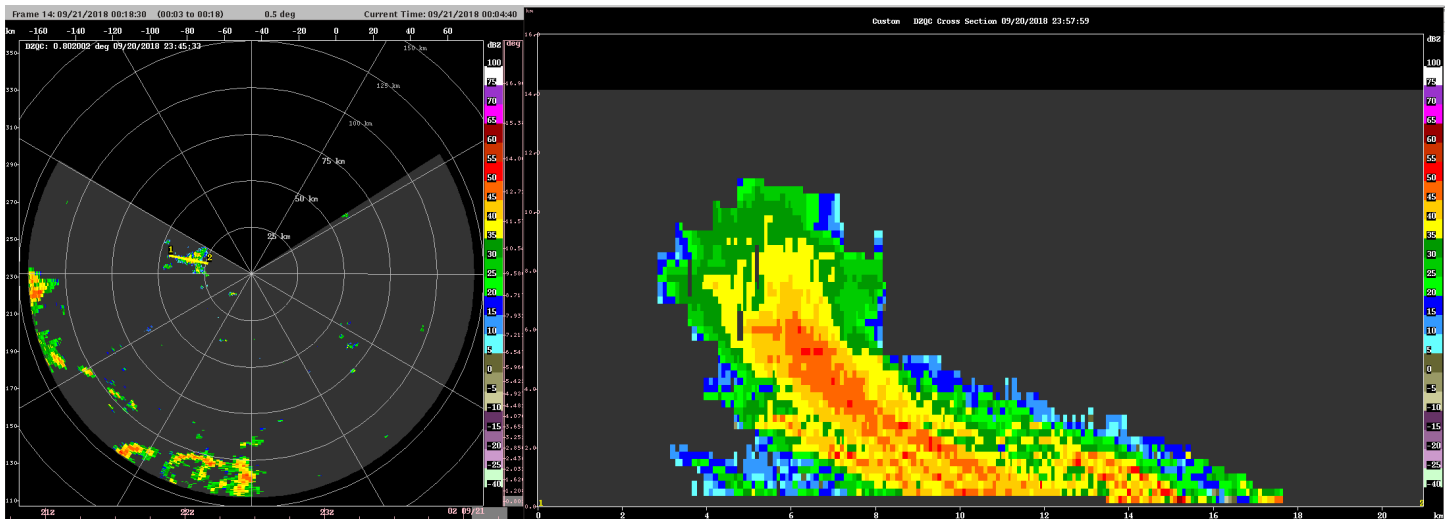


20180921  
Morning Shift (9A-1P L)  
Ben Trabing

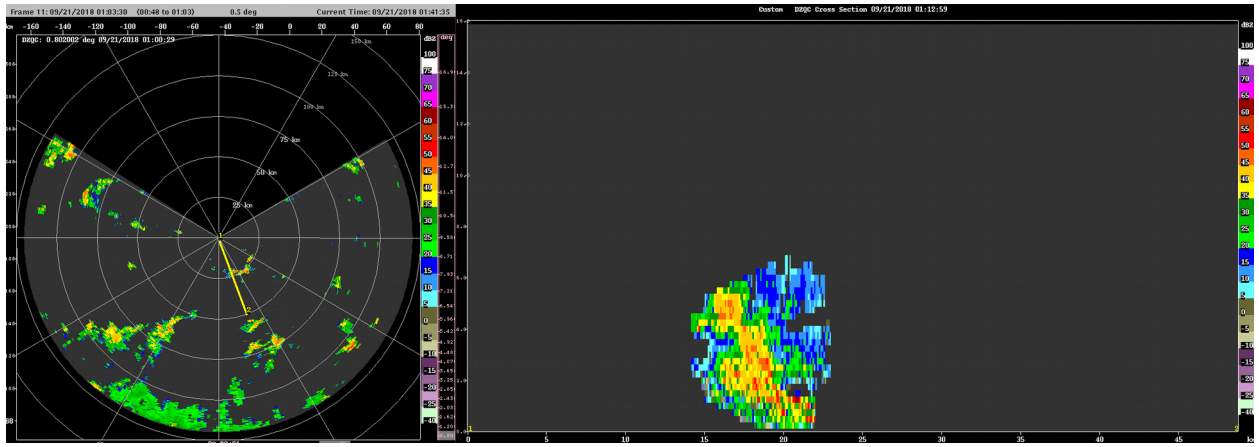
0000 – precipitation to the west of radar is showing some nice precipitation and ~~dramatic effects of near surface shear and/or westward propagation.~~ **Latency between the scan time may make this an artifact.** An experiment with an RHI and the cross section tool will be compared when ship moves closer to convection to the south. Confirmed that tilt is based on ship motion



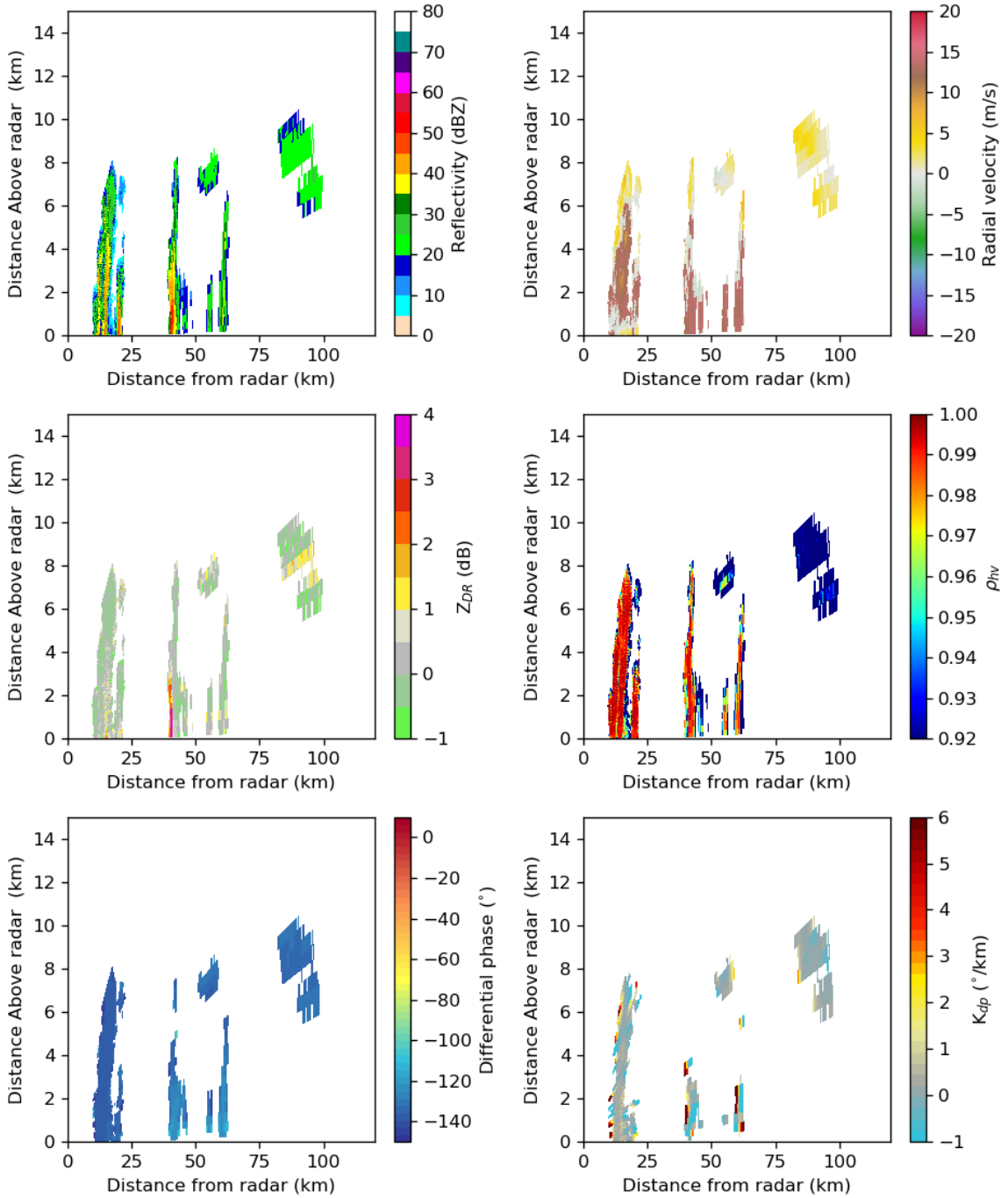
0120 – RHI was conducted through some short range convective storms to test whether the ship motion was taken into account in cross sections above<sup>^</sup>. Ship motion is not considered so when cross sections are taken we will specify ship motion. Figure shown below comparing the RHI to the cross section taken using the cross section software. Also note the aspect ratios are misleading at times.

0130 – Continue high elevation angle PPI volume scans.

0145 – switch to far ppi since most convection near radar is shallow.

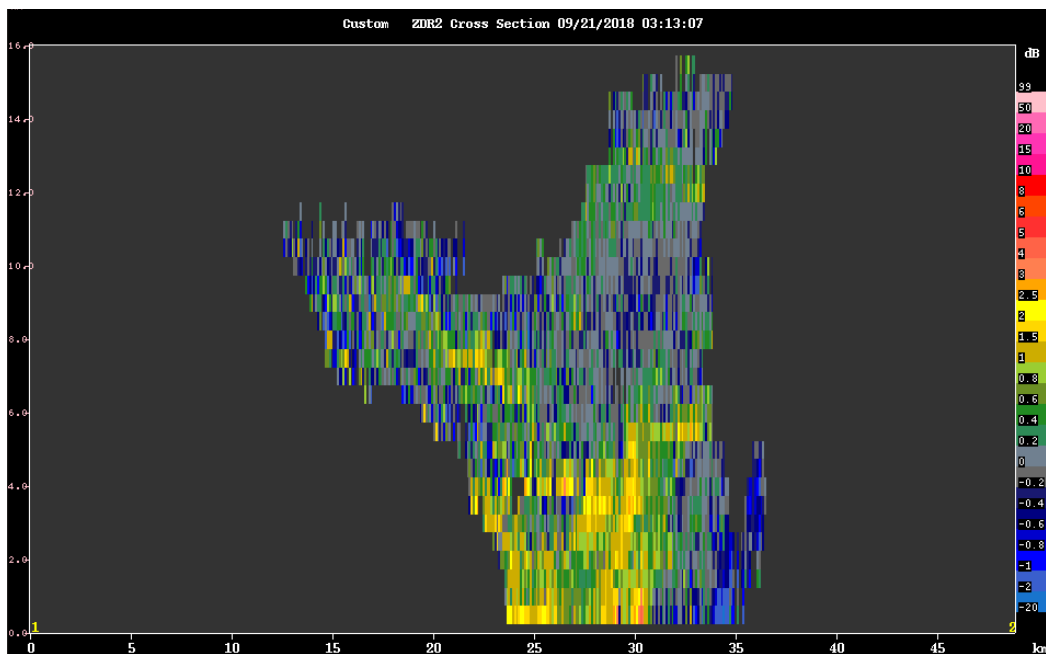
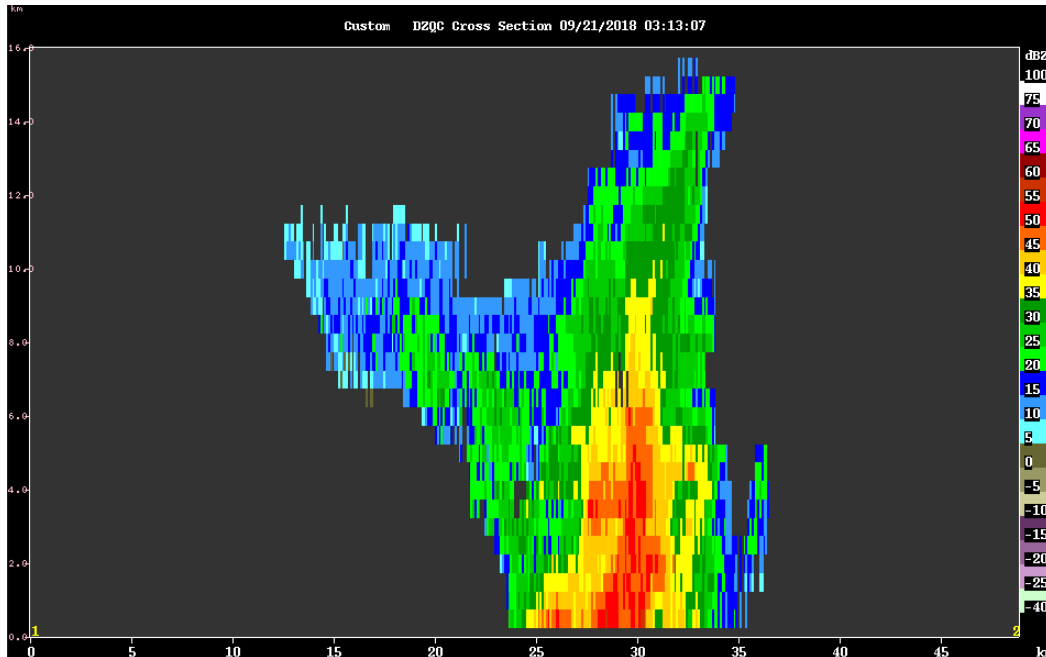


SEAPOL 2018-09-21 01:21:58 RHI 162.0°



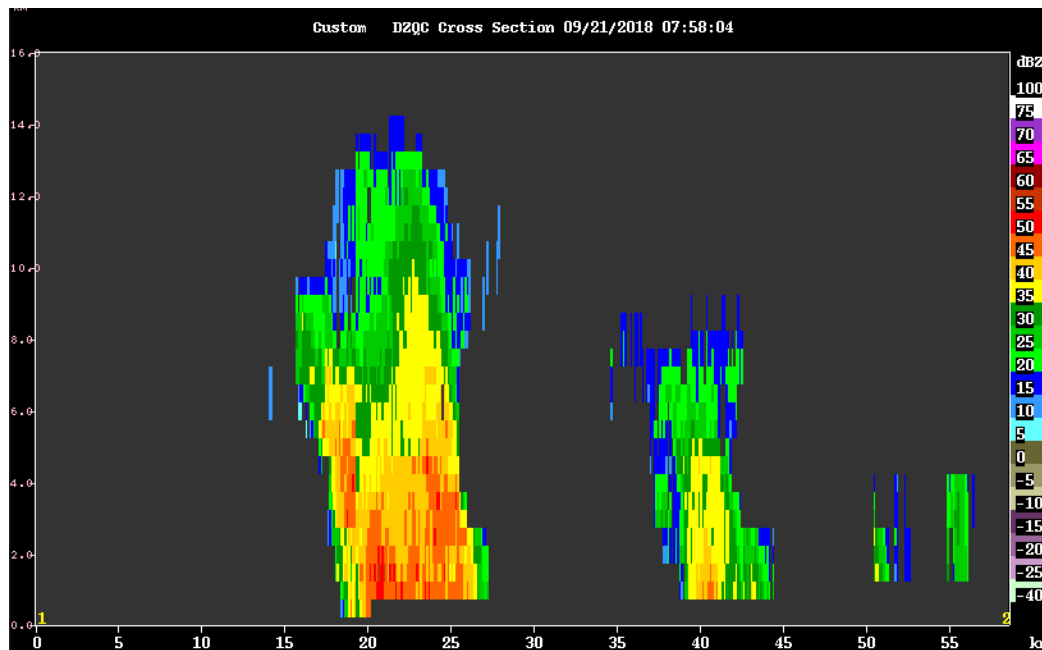
Afternoon Shift (12P-9P L)  
Weixin Xu

0300 – Keep running in the FAR PPI mode. Scattered convection is present in the radar domain. Some of the convection cells become very deep at this time, e.g., 10dBZ echo-top height up to 16 km. The most impressive thing is the 35dBZ echo-top extends to 9-10 km. ZDR values below the freezing level in this convection core are around 2-2.5, and a few pixels with ZDR up to 3-4. High dBZ areas in the mixed-phase region (7-10 km) also correspond to low ZDR values, indicating the presence of hail/graupel. The interesting thing is HID shows not any hail/graupel between 7-10 km.



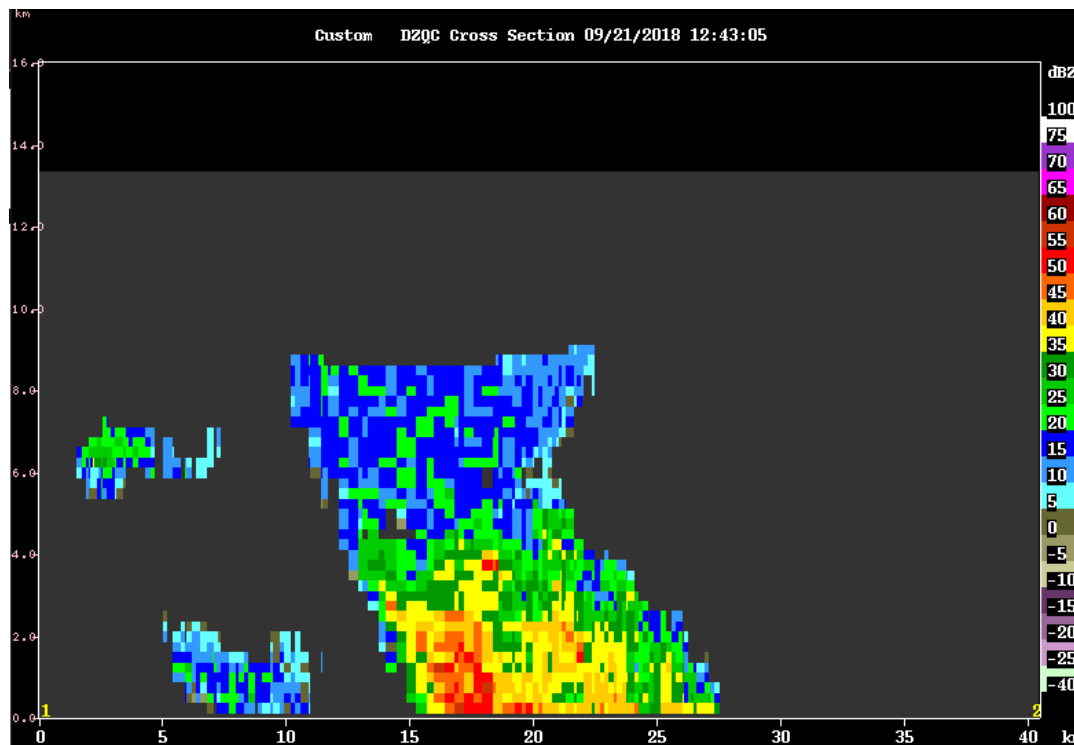
0600 – Radar operation remained in the FAR PPI scans. Very scattered and shallow convection present in the operation area.

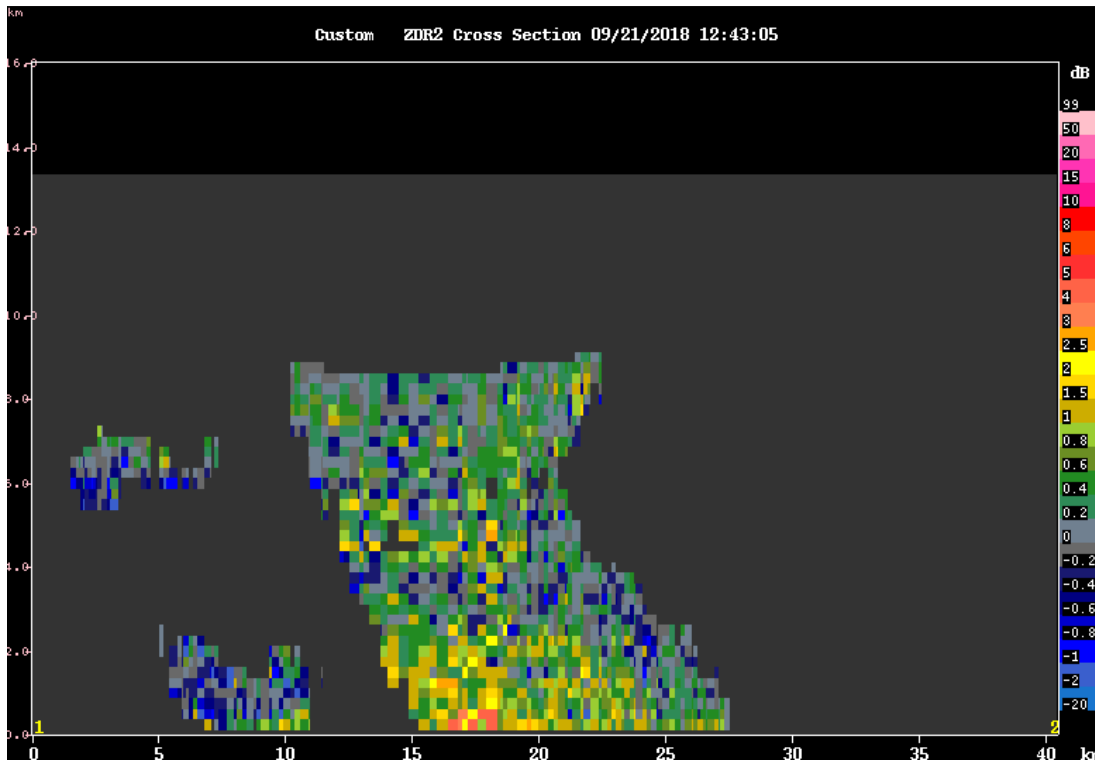
0730 – Convection is gradually deepening through the afternoon, but still remain relatively isolated. Most of the scattered convection is 75-100 km to the north of SEAPOL.



Morning Shift (9P-4A L)  
Chelsea Nam

1230 – Scattered shallow convection to the north of SEAPOL. Keep the FAR mode. High ZDR core from shallow convective cell near the radar (See below figures)





1515 – Generally suppressed convective activity around the radar. Only some pixels of reflectivity in the low tilts.

1715 – Pretty clear with few convection. Surveillance scan shows a few scattered convection to the further south from SEAPOL. Switched to FAR\_S mode.

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

1900 – Continue low elevation angle PPI scans with no convection nearby

2145 – Shallow cells are isolated around the radar most below 5 km.

