UW MODIFICATION #1 TO 2AKu rain_type FIELD

If the following three criteria are met for a grid point, the rain_type is changed to STRATIFORM:

- The original classification is CONVECTIVE
- The maximum reflectivity in the column is greater than 40dBZ
- The height at which that maximum reflectivity occurs is between 3 and 5 km

UW MODIFICATION #2 TO 2AKu rain_type FIELD

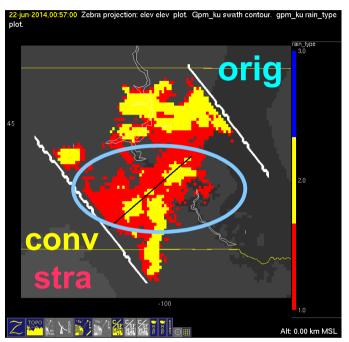
If the following four criteria are met for a grid point, the rain_type is changed to STRATIFORM:

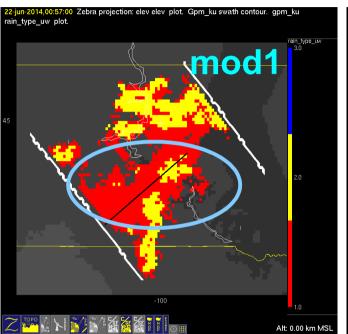
- The original classification is CONVECTIVE
- The maximum reflectivity in the column is greater than 38dBZ
- The max reflectivity in a column minus the reflectivity 1km higher is greater than or equal to 8 dBZ
- The max reflectivity in a column minus the reflectivity 1km lower is less than or equal to 6 dBZ

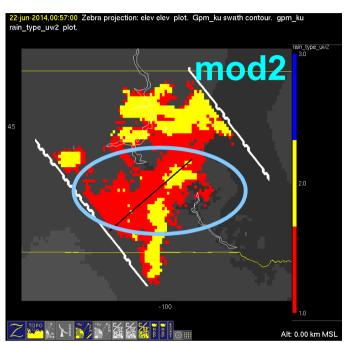
.

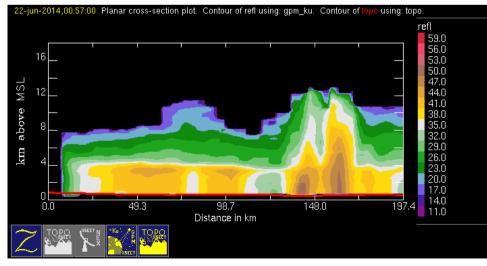
Each of the following slides shows the original classification on the left, the UW mod #1 classification in the middle and the UW mod #2 classification on the right, as well as a crosssection of the reflectivity which represents the cut where the black line is drawn on the horizontal plots.

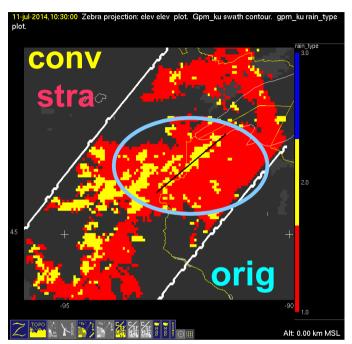
All cross sections are drawn from left to right.

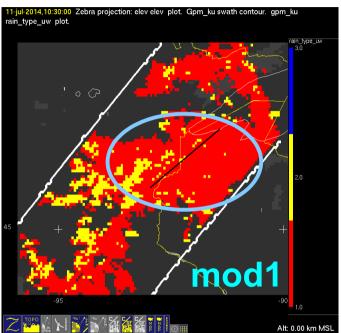


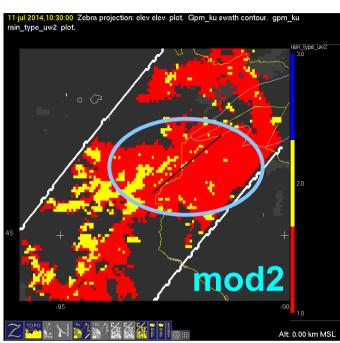


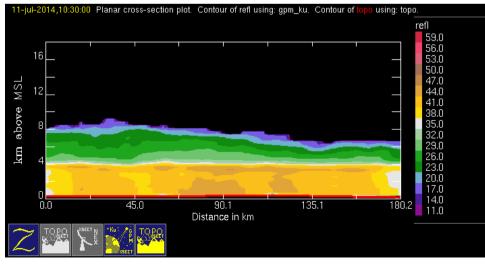


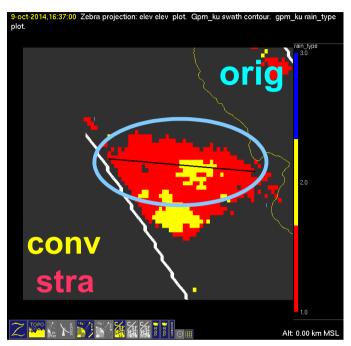


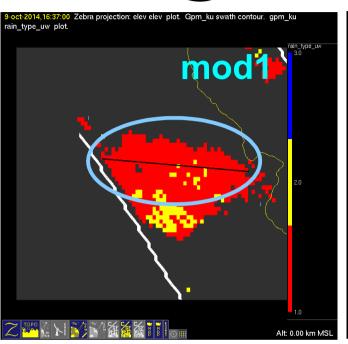


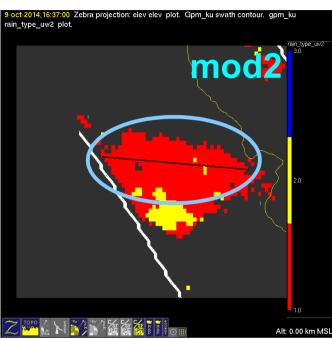


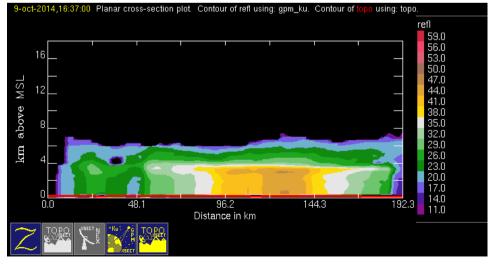


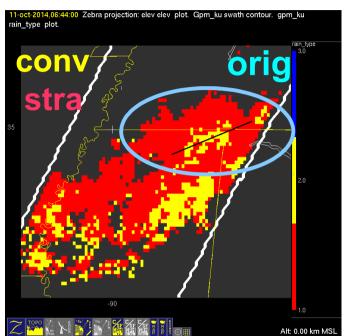


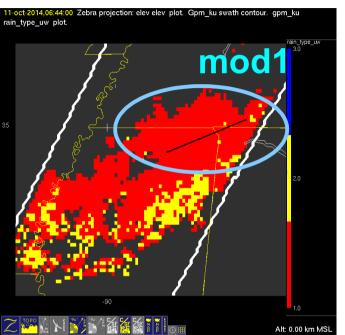


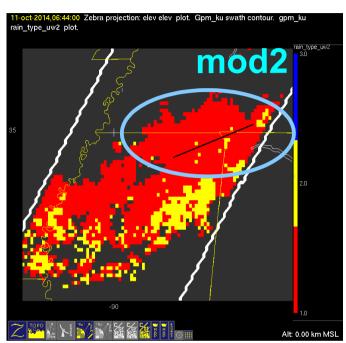


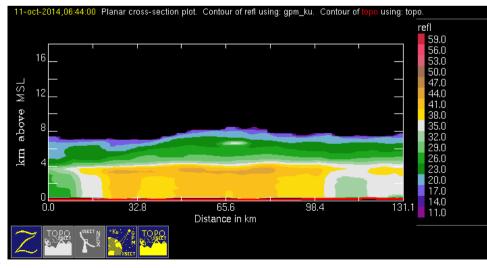


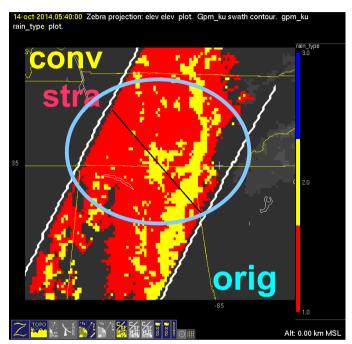


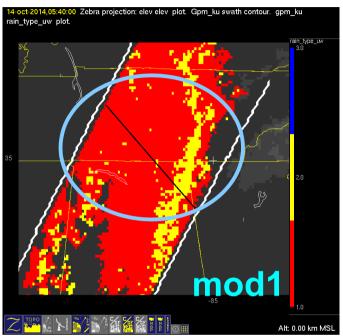


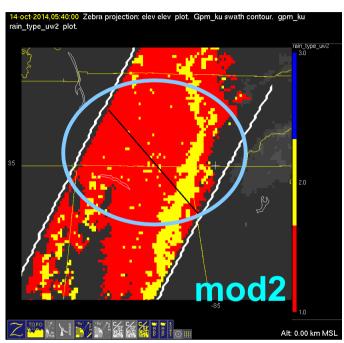


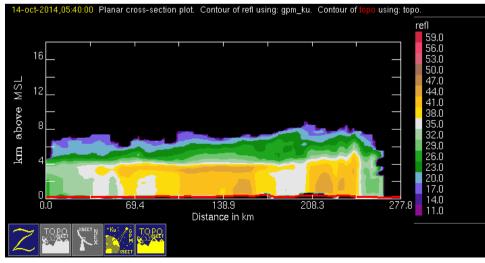


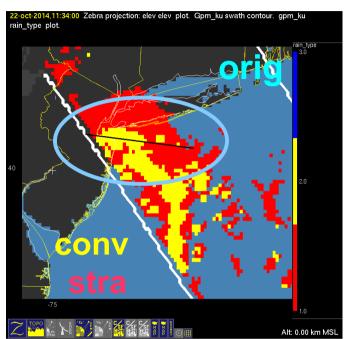


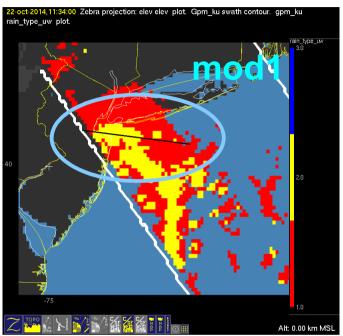


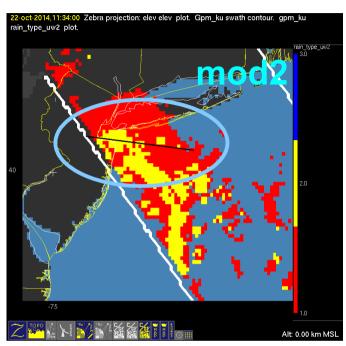


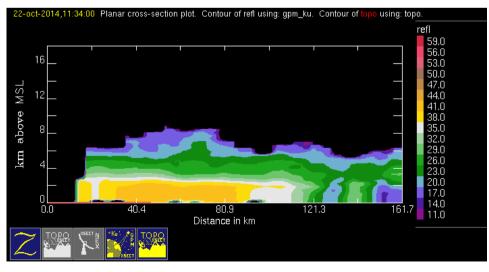






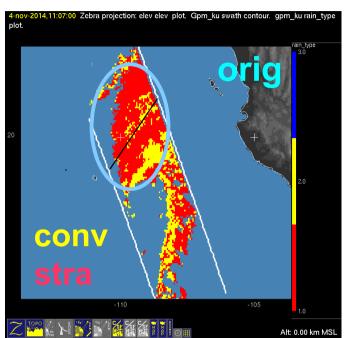


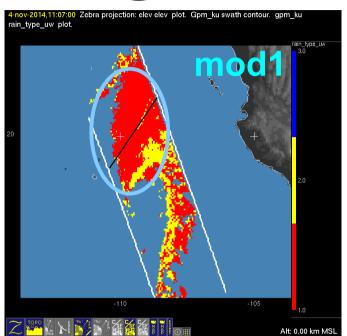


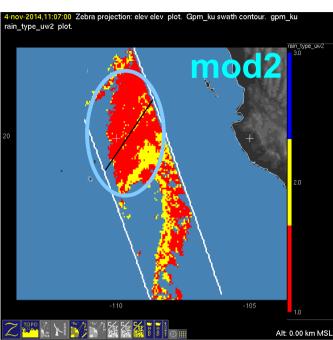


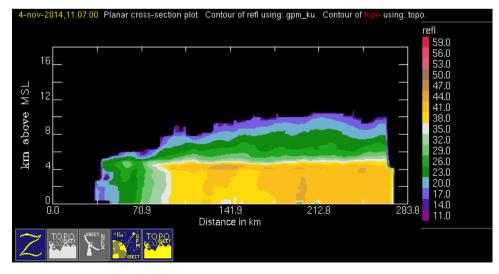
This case fails both height and slope tests. Cross section shows nearly constant reflectivities from ground to 2km.

20141104 @ 110624 #1/2

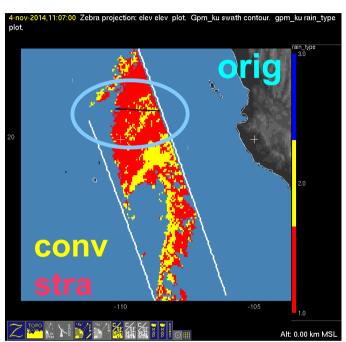


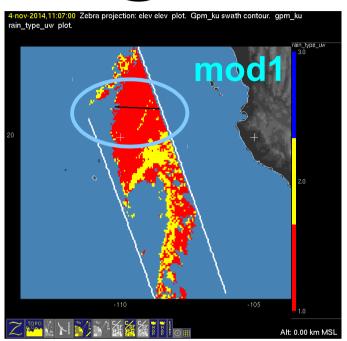


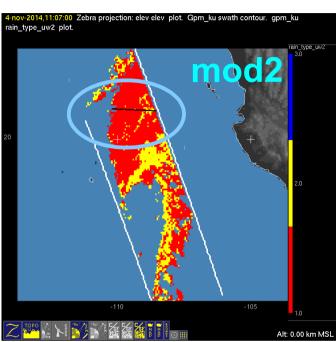


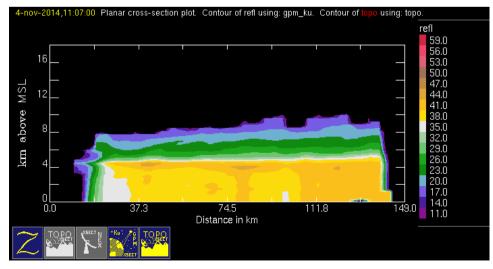


20141104 @ 110624 #2/2

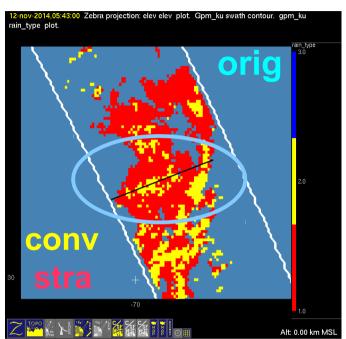


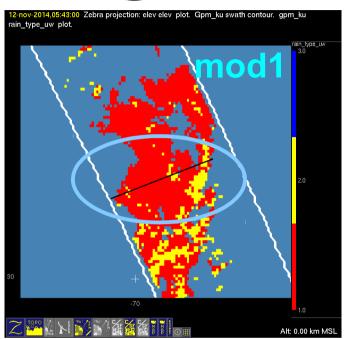


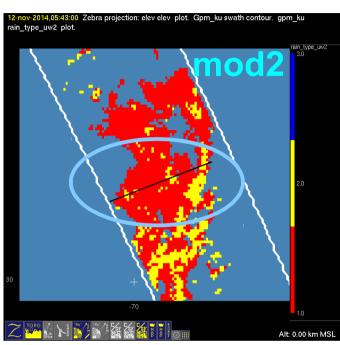


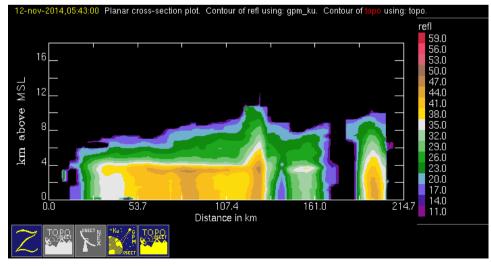


20141112 @ 054200 #1/2

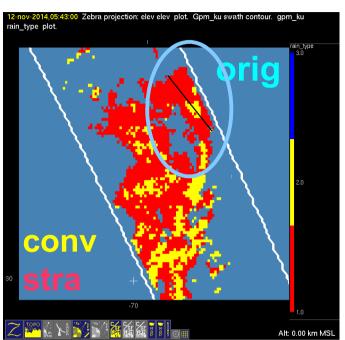


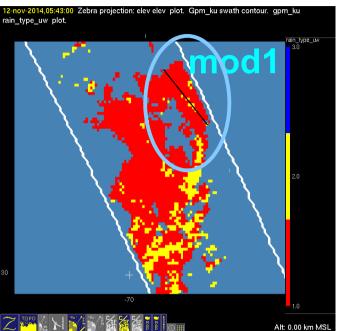


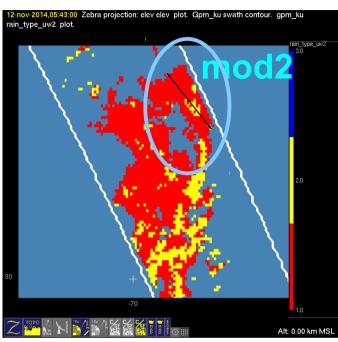


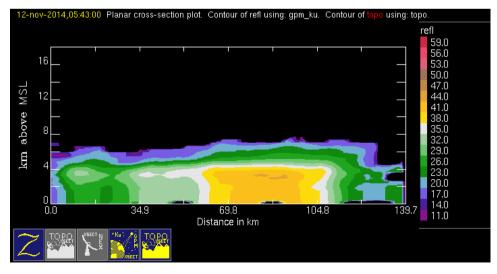


20141112 @ 054200 #2/2

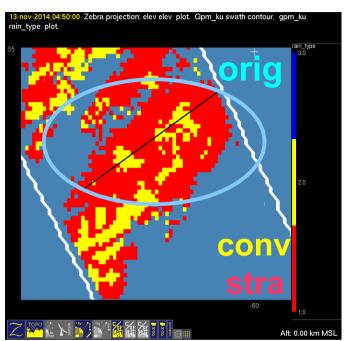


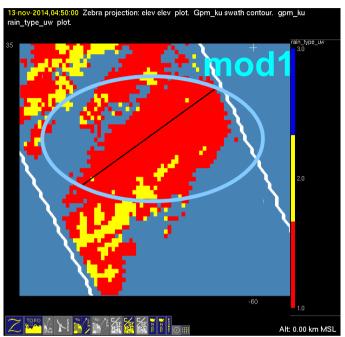


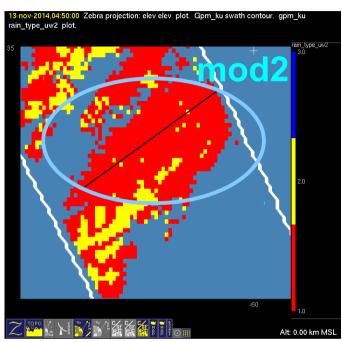


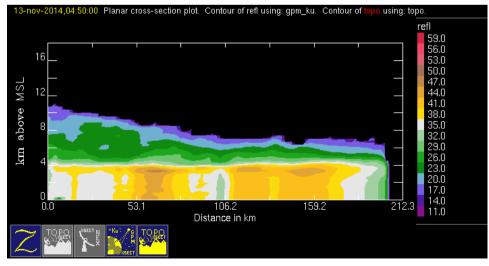


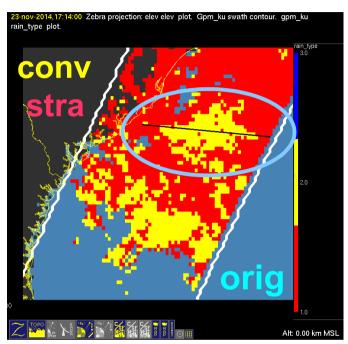
This case fails the slope test. Cross section shows nearly constant reflectivities from ground to 4km.

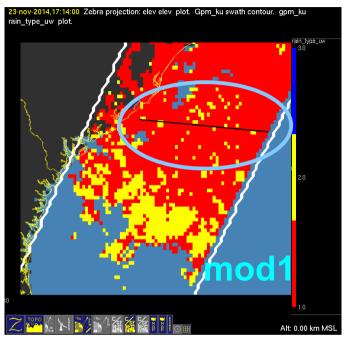


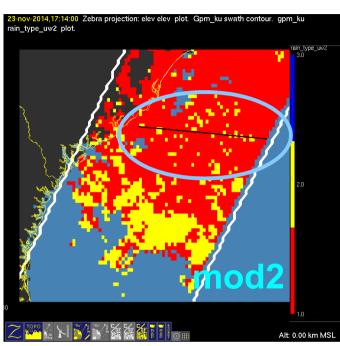


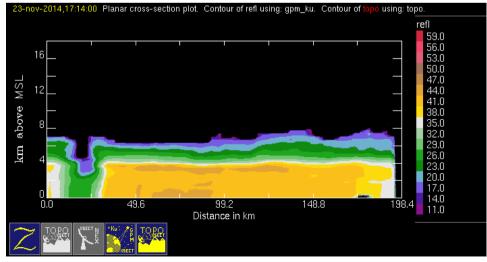


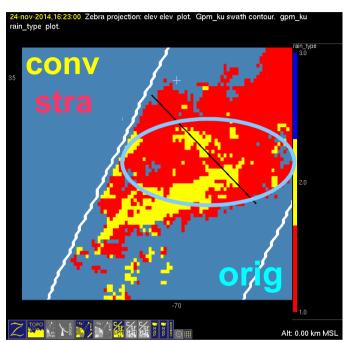


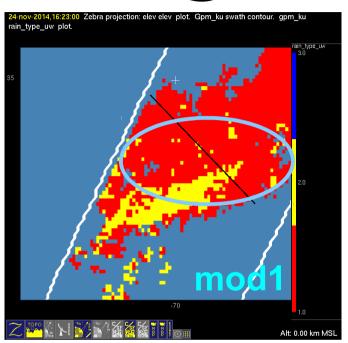


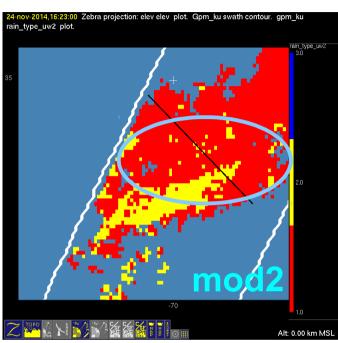


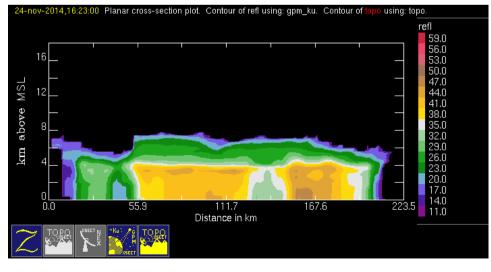


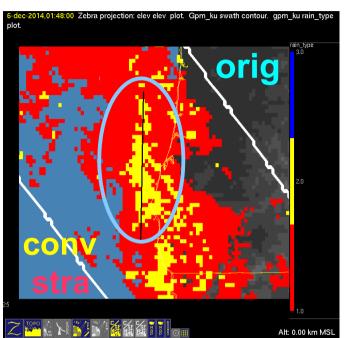


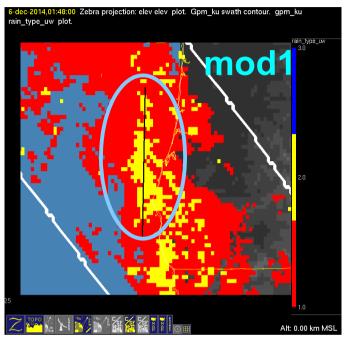


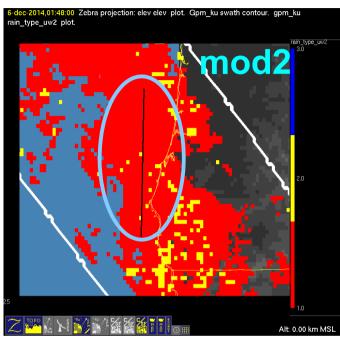


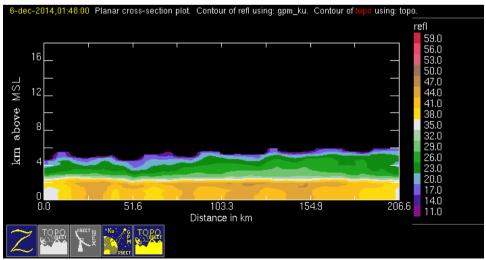




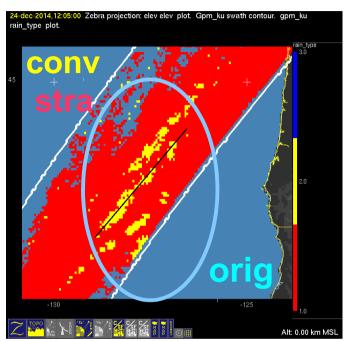


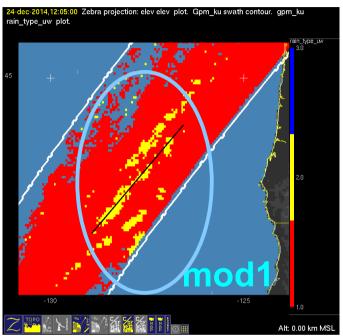


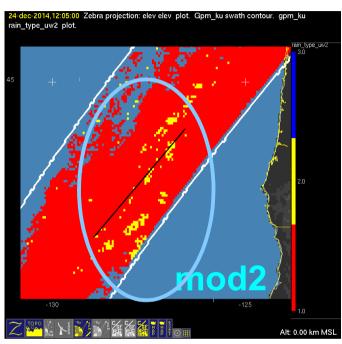


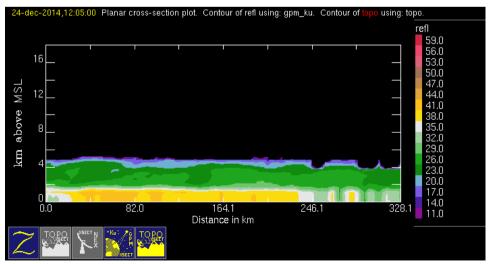


This case fails the height test but passes the slope test. Cross section shows max reflectivities at very low altitudes.

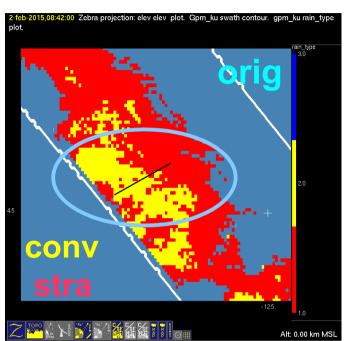


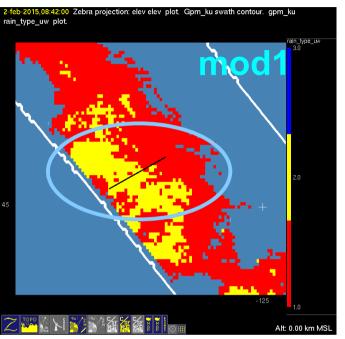


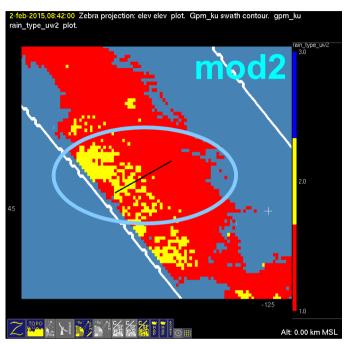


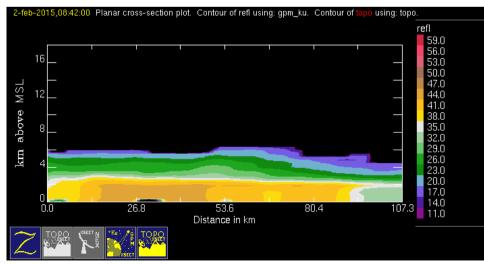


This case fails the height test but passes the slope test. Cross section shows max reflectivities at very low altitudes.

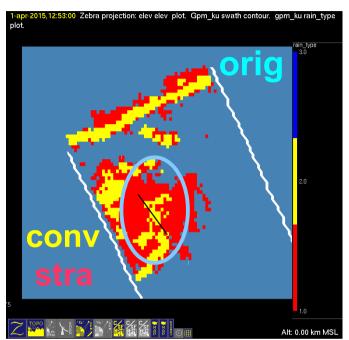


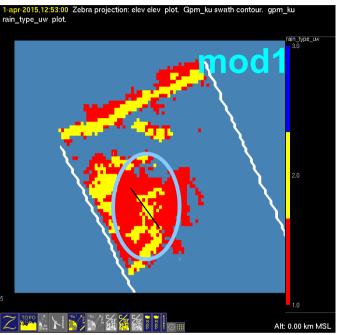


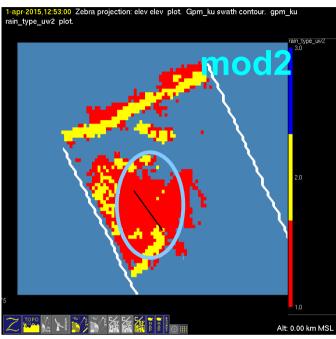


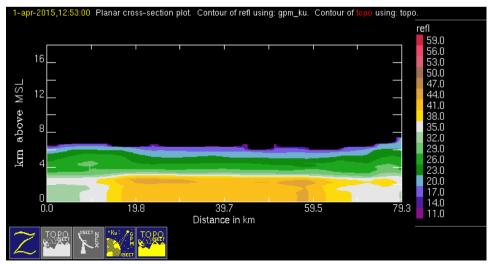


This case has a hard time with both tests. Cross section shows very low altitude and sometimes constant reflectivities from the ground to 2km.

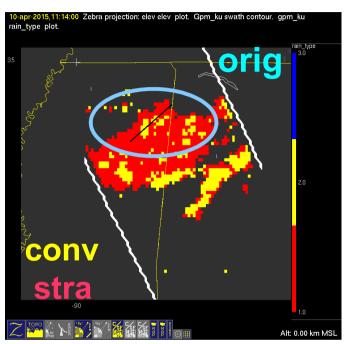


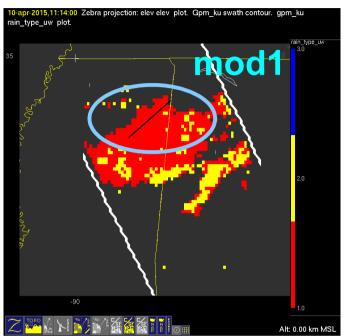


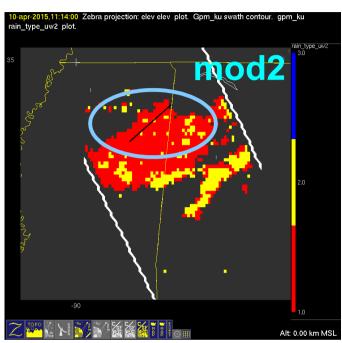


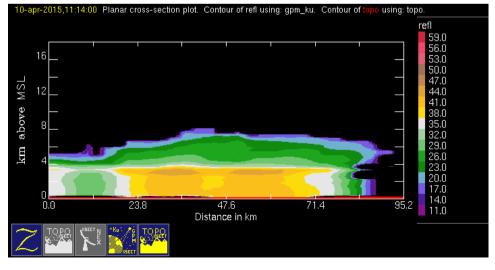


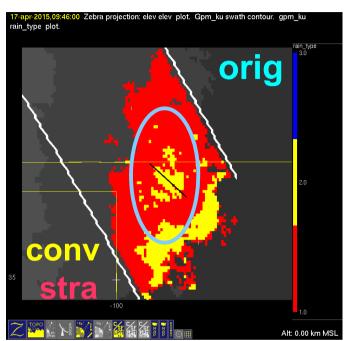
This case fails the height test but passes the slope test. Cross section shows max reflectivities at very low altitudes.

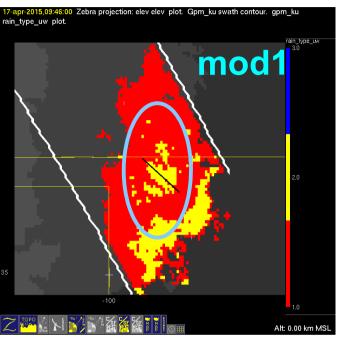


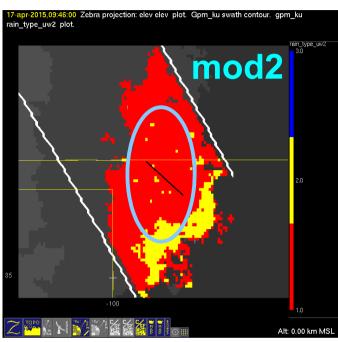


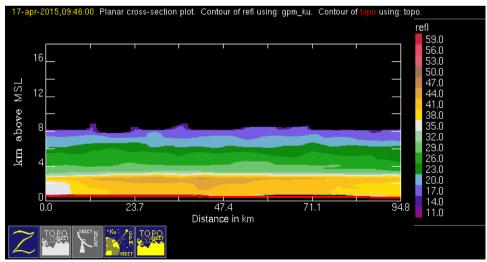




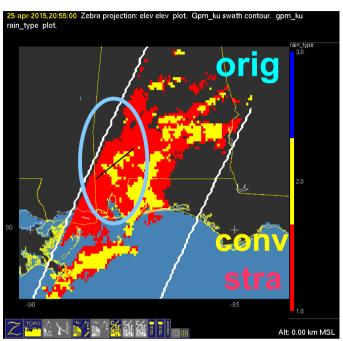


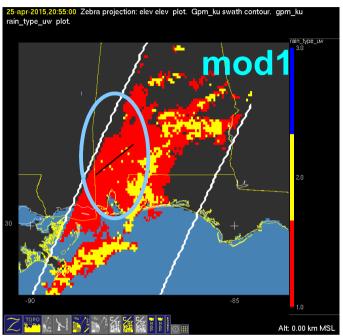


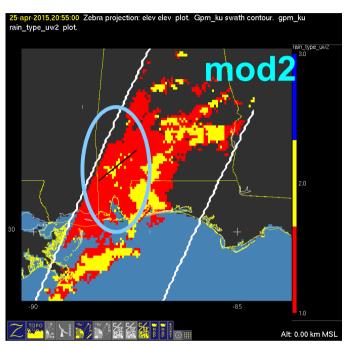


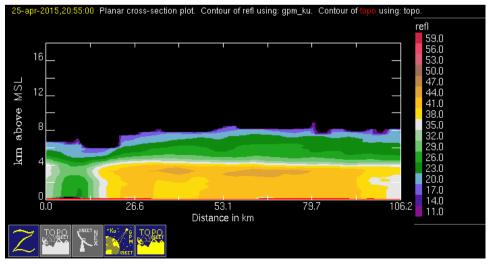


This case fails the height test but passes the slope test. Cross section shows max reflectivities at very low altitudes.

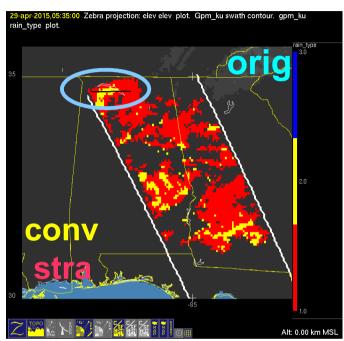


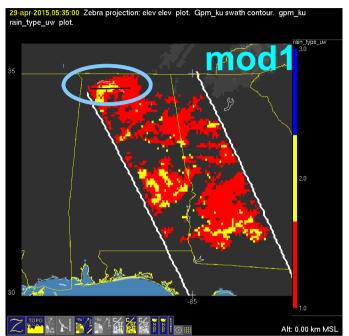


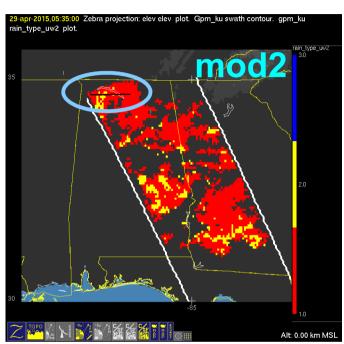


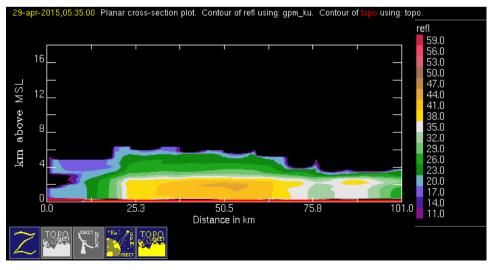


20150429 @ 053449 #1/2

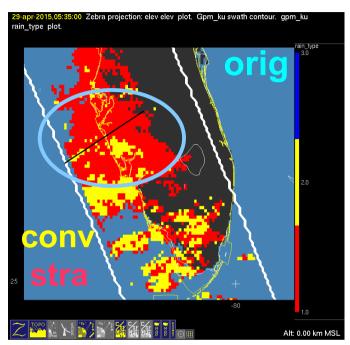


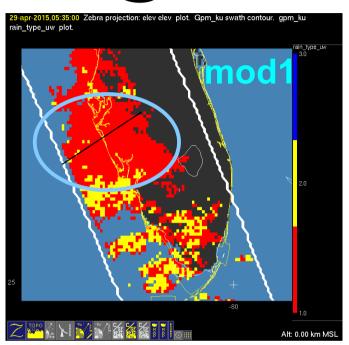


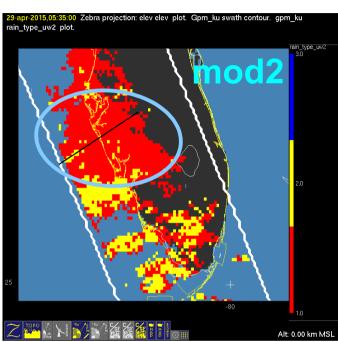


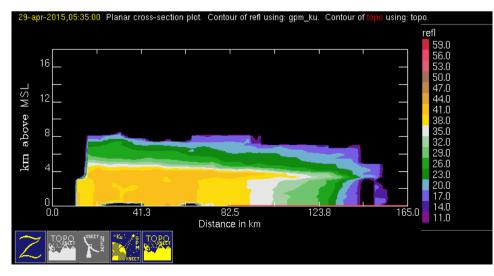


20150429 @ 053449 #2/2

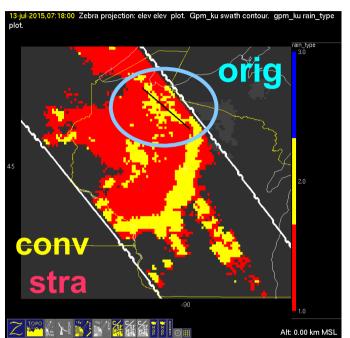


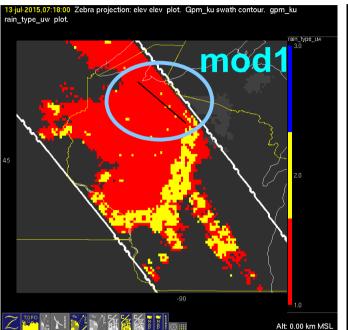


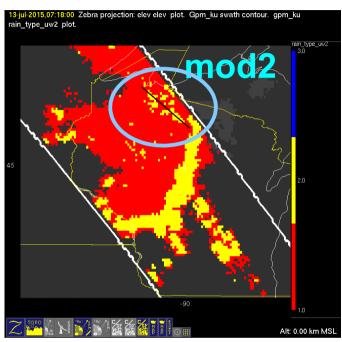


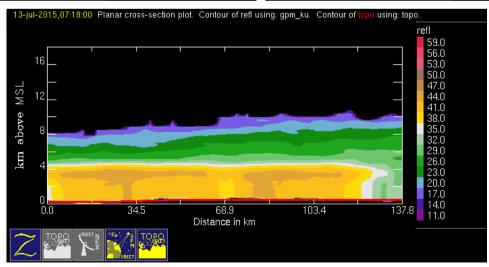


20150713 @ 071724 #1/2



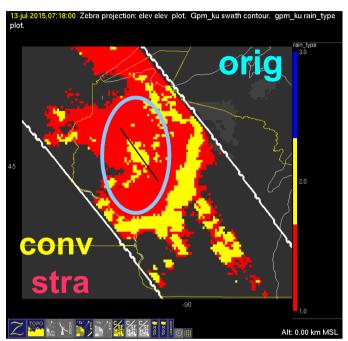


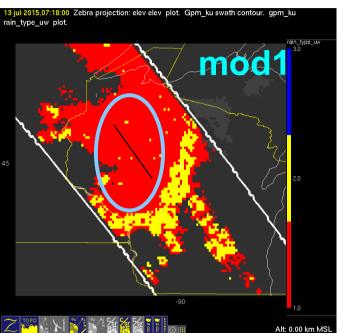


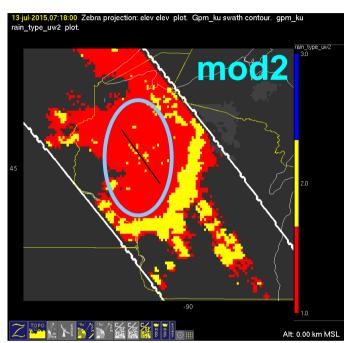


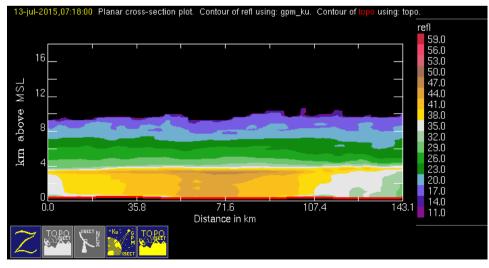
This case fails the slope test. Cross section shows enough striation that slope test should have succeeded.

20150713 @ 071724 #2/2

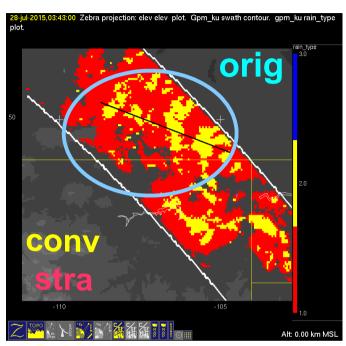


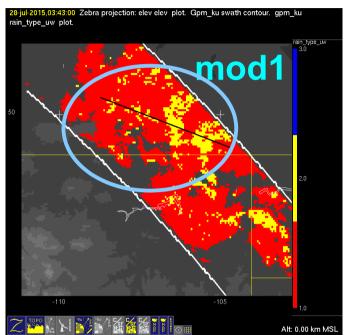


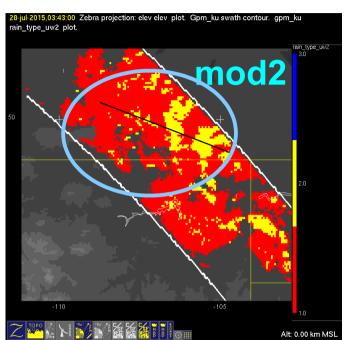


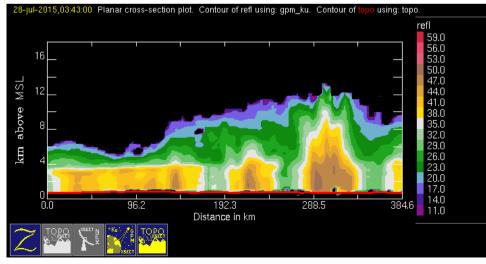


20150728 @ 034222 #1/2

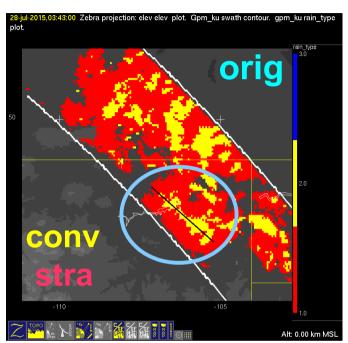


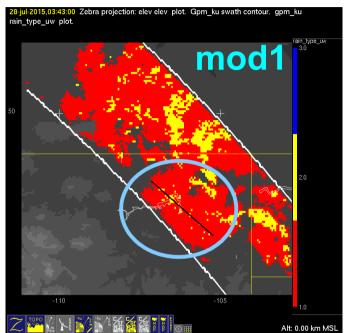


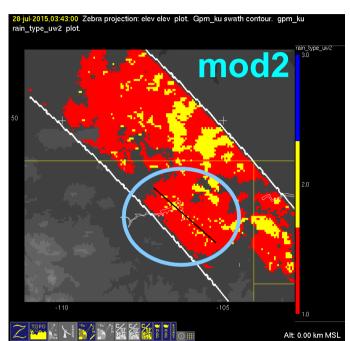


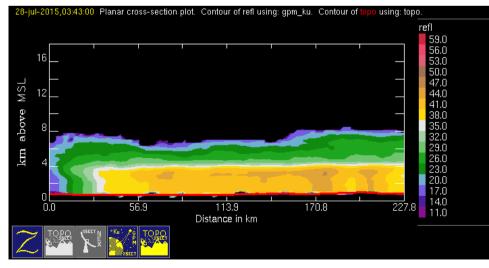


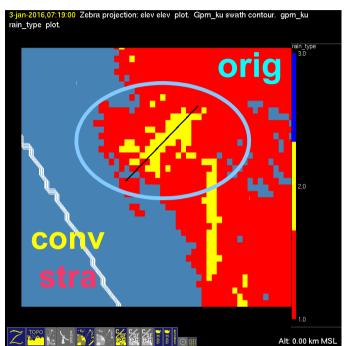
20150728 @ 034222 #2/2

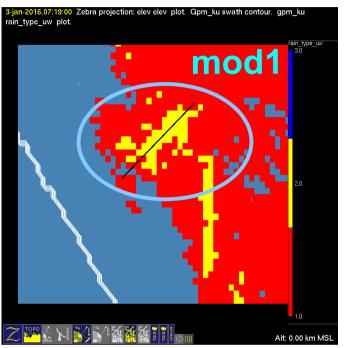


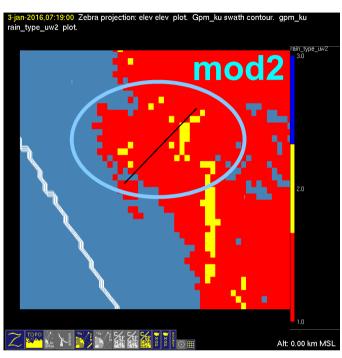


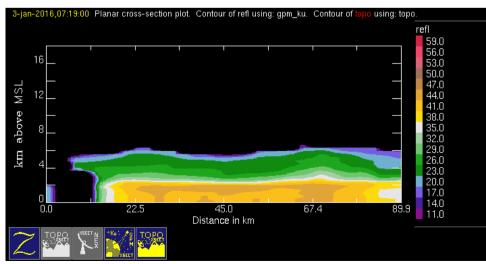












This case fails the height test but passes the slope test. Cross section shows max reflectivities at very low altitudes.