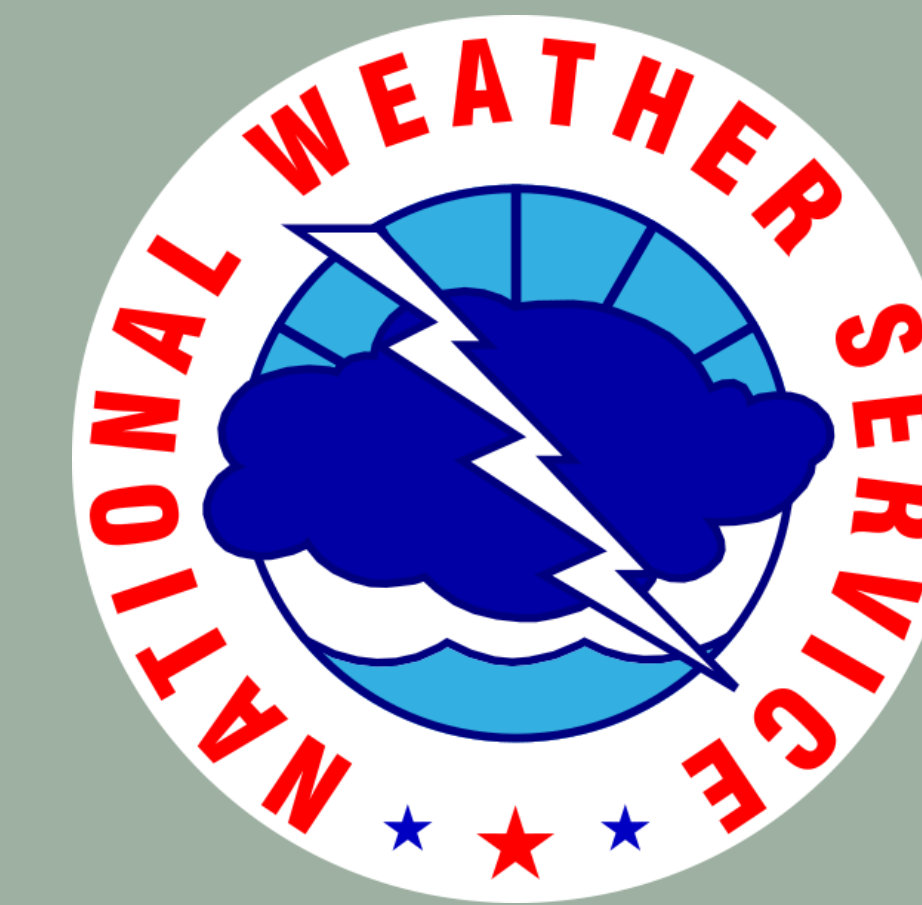


Volume Coverage Patterns



What You Forgot You Knew

Chris Huffer
NEXRAD Radar Operations Center, Norman, OK



Pulse Repetition Frequency

Select Appropriate VCP

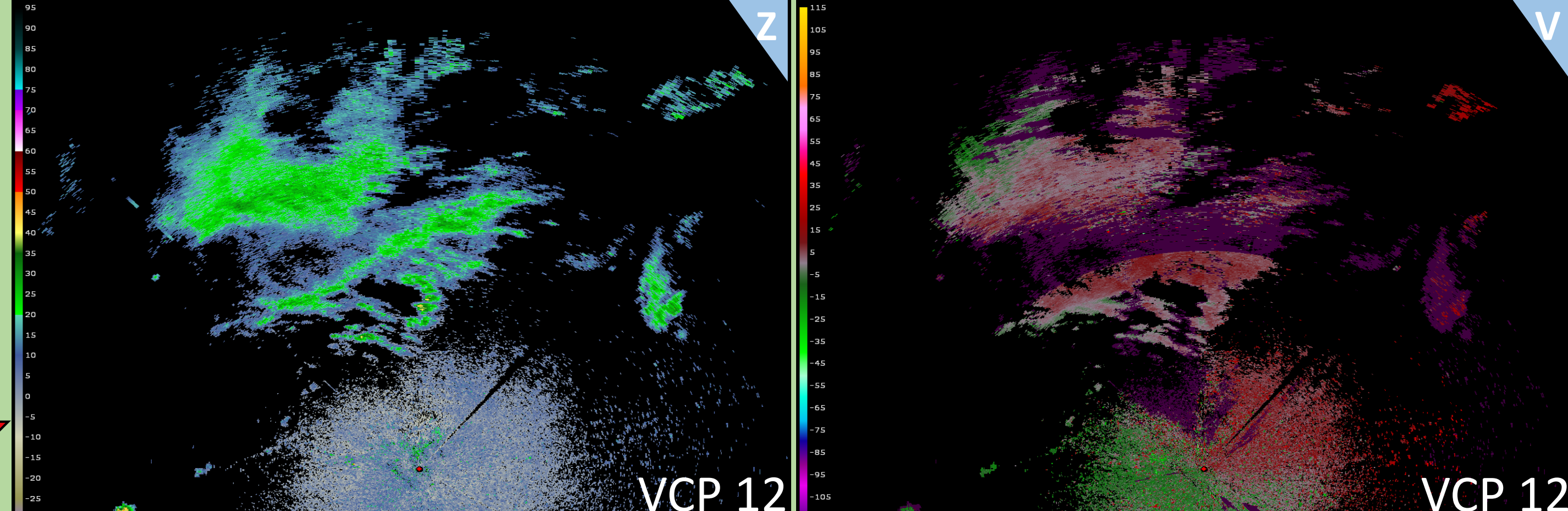
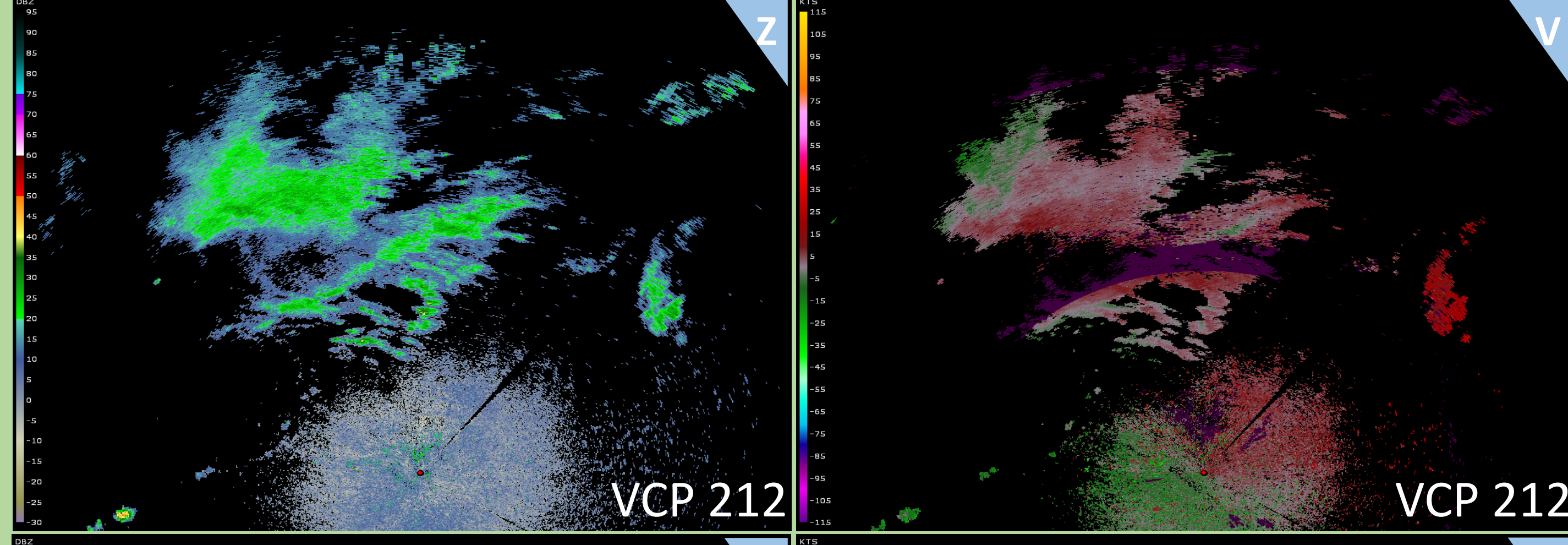
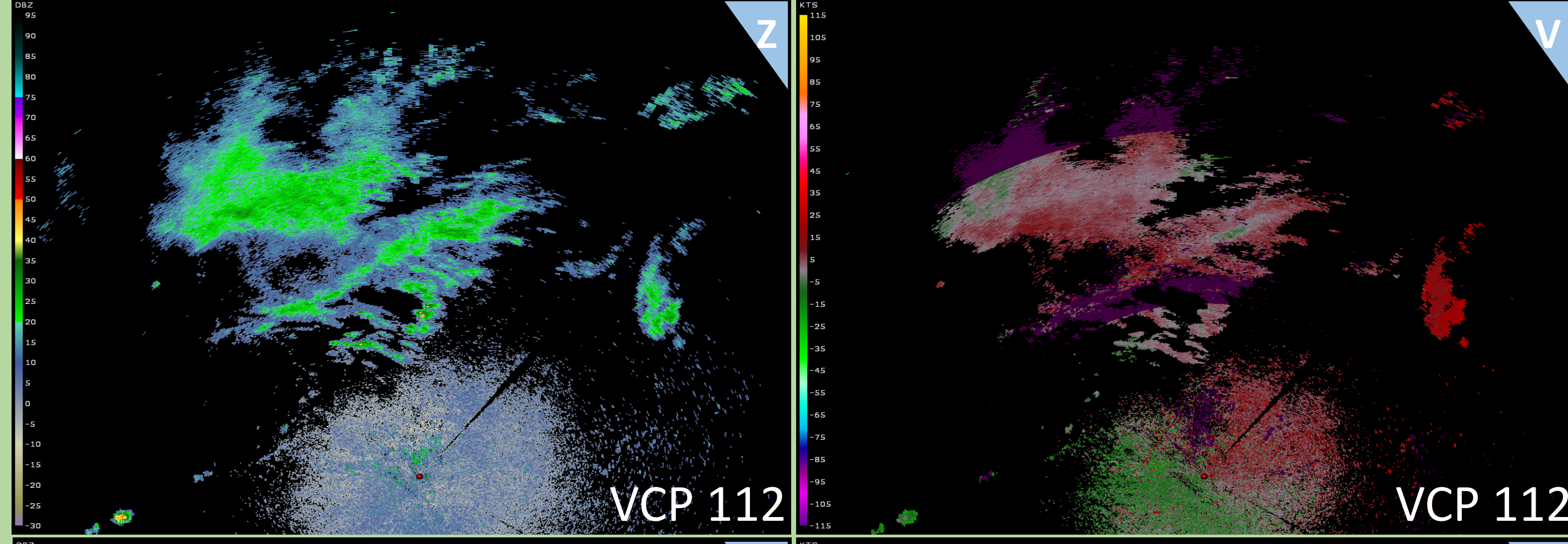
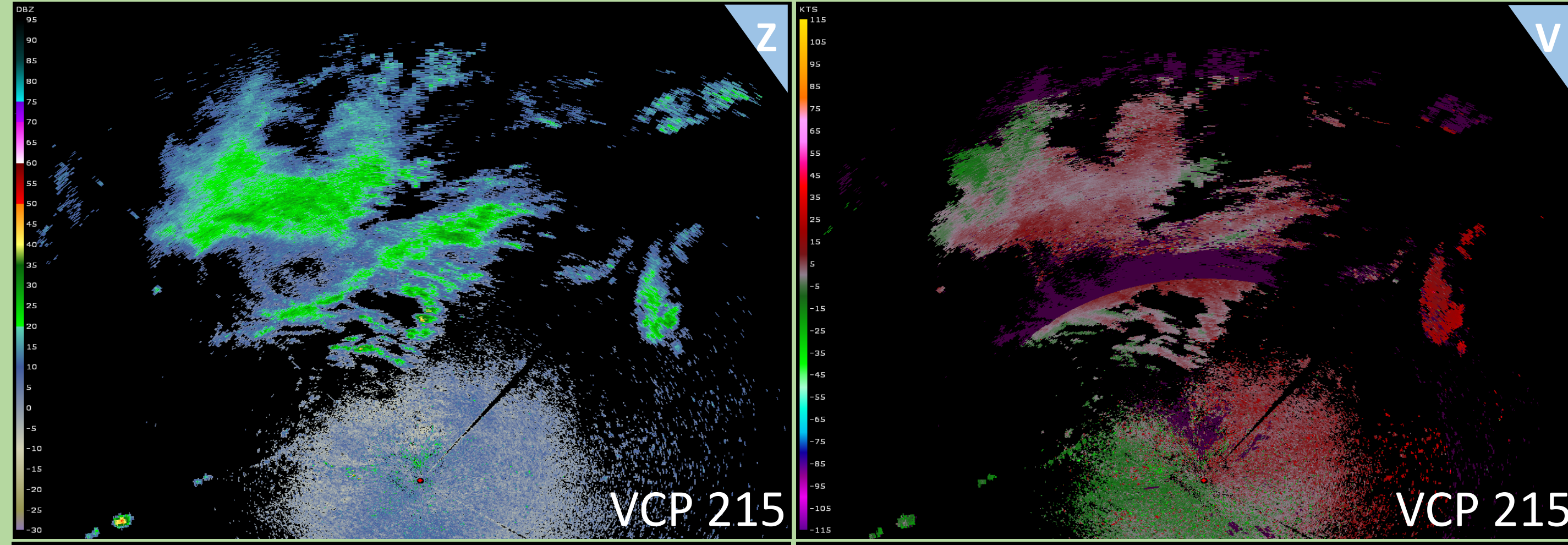
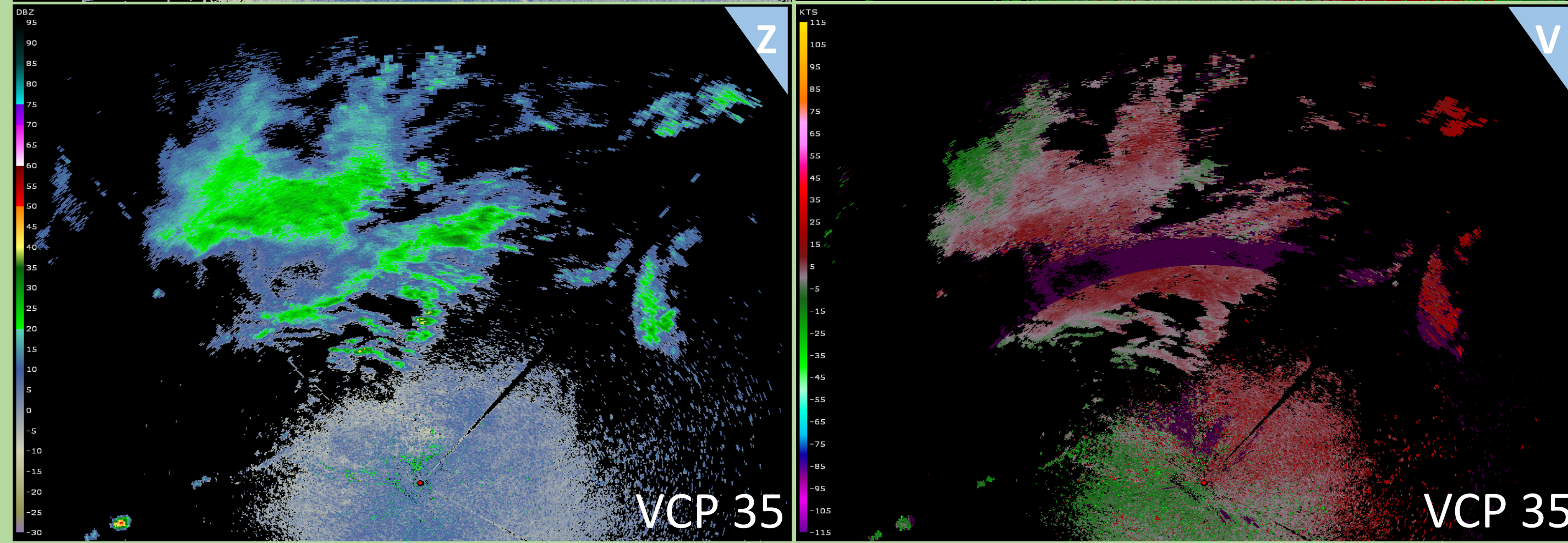
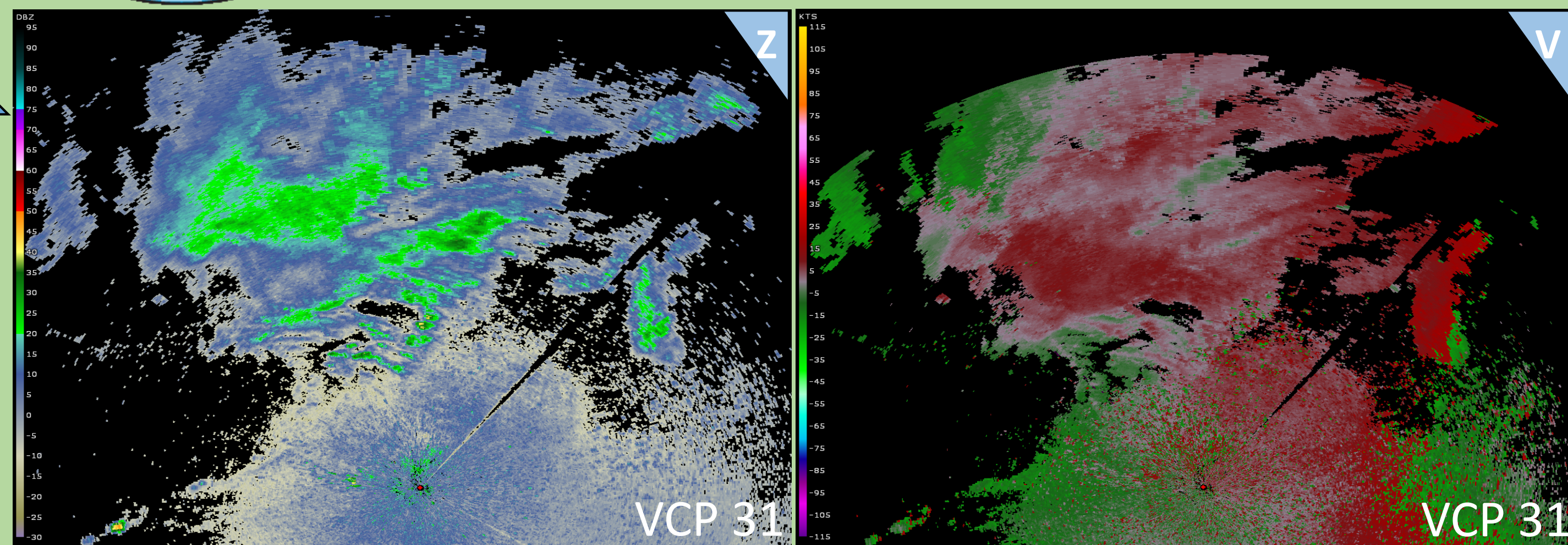
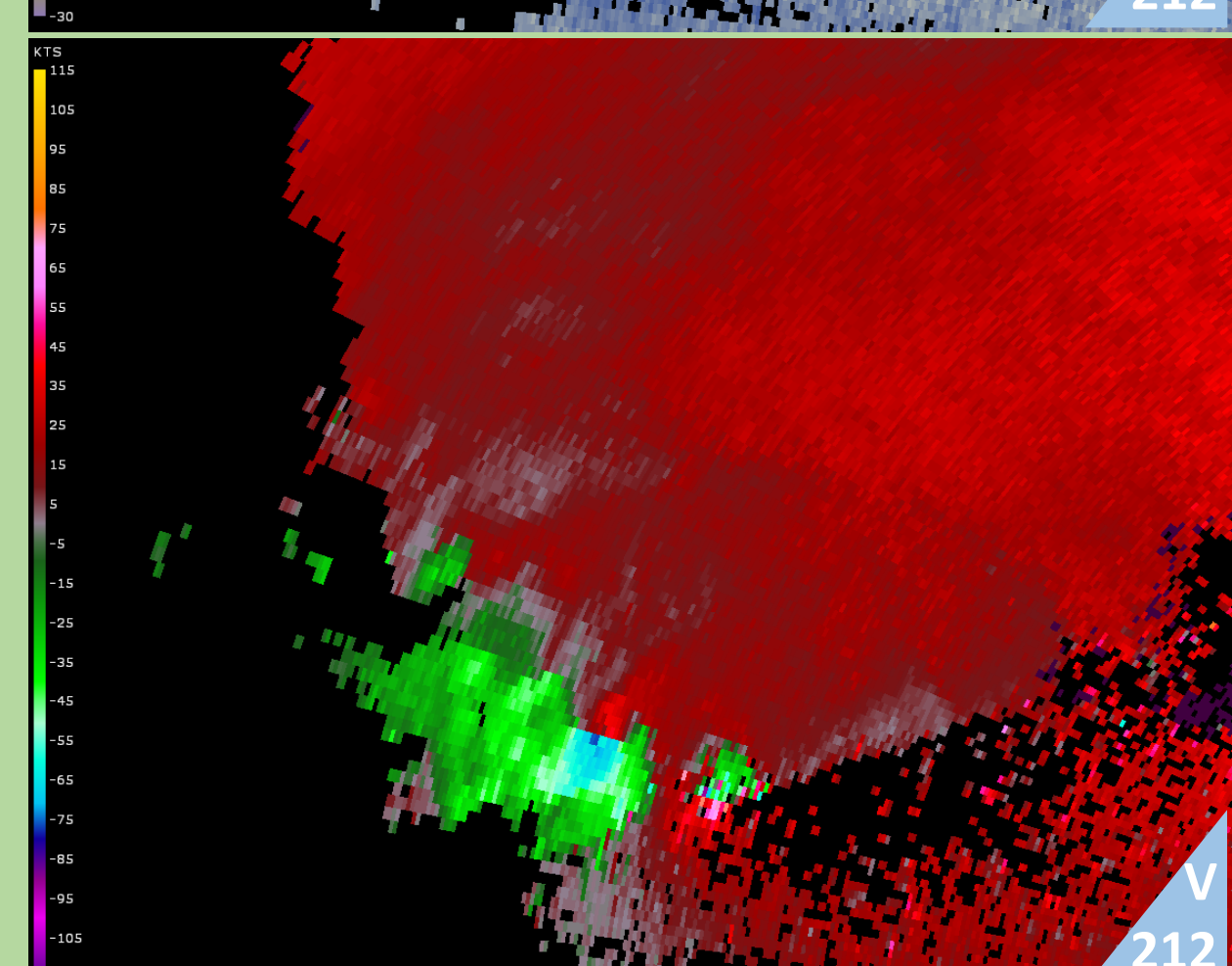
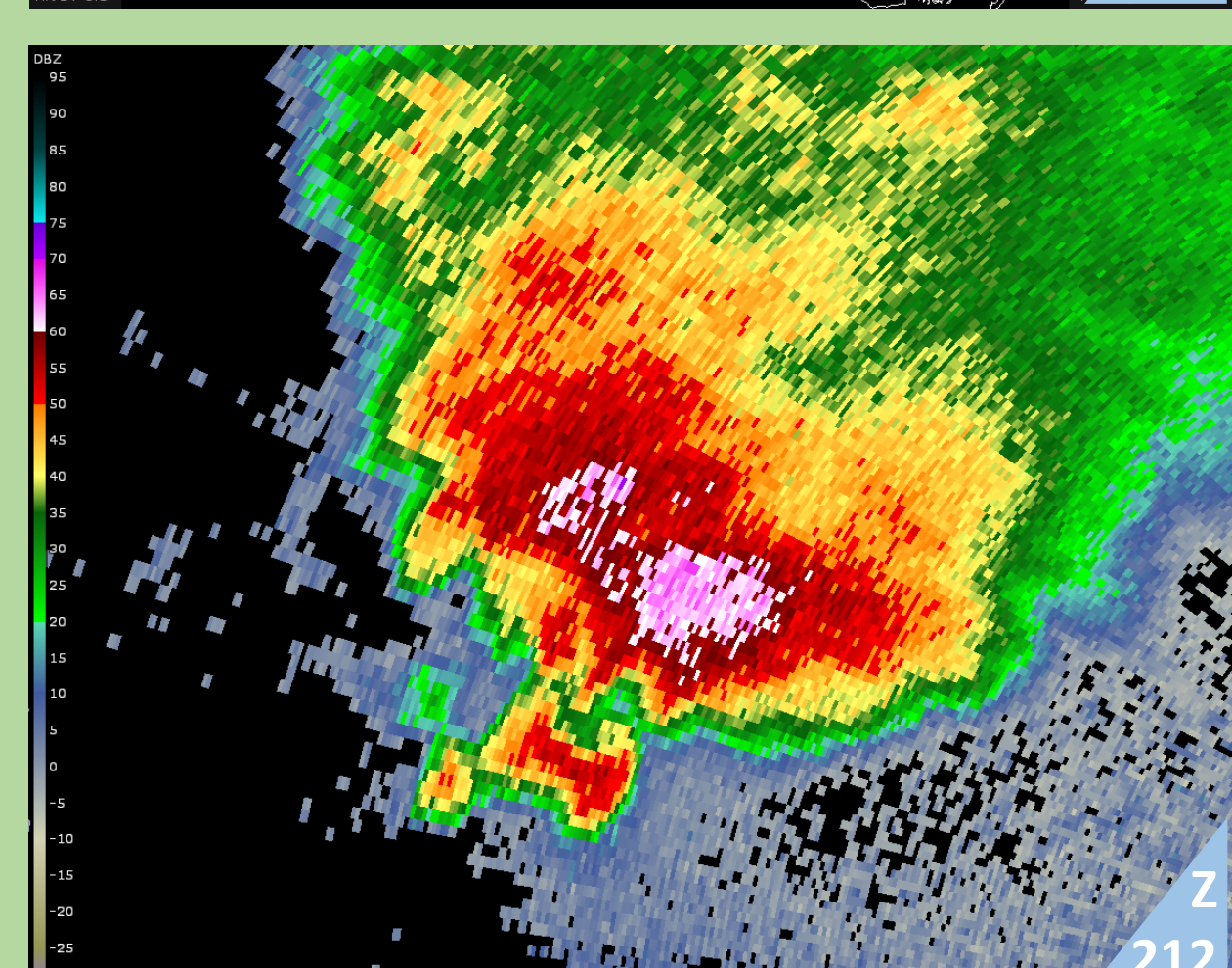
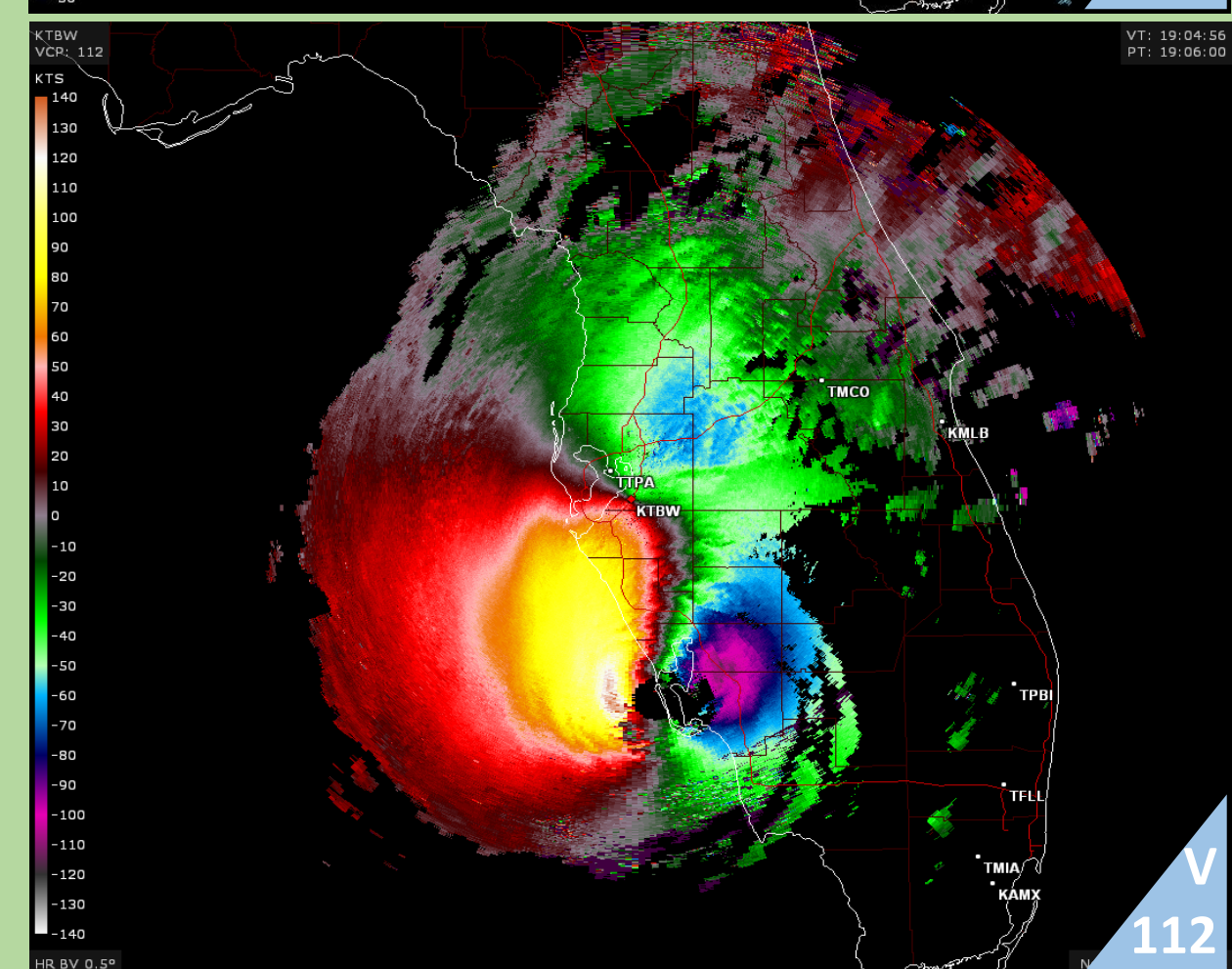
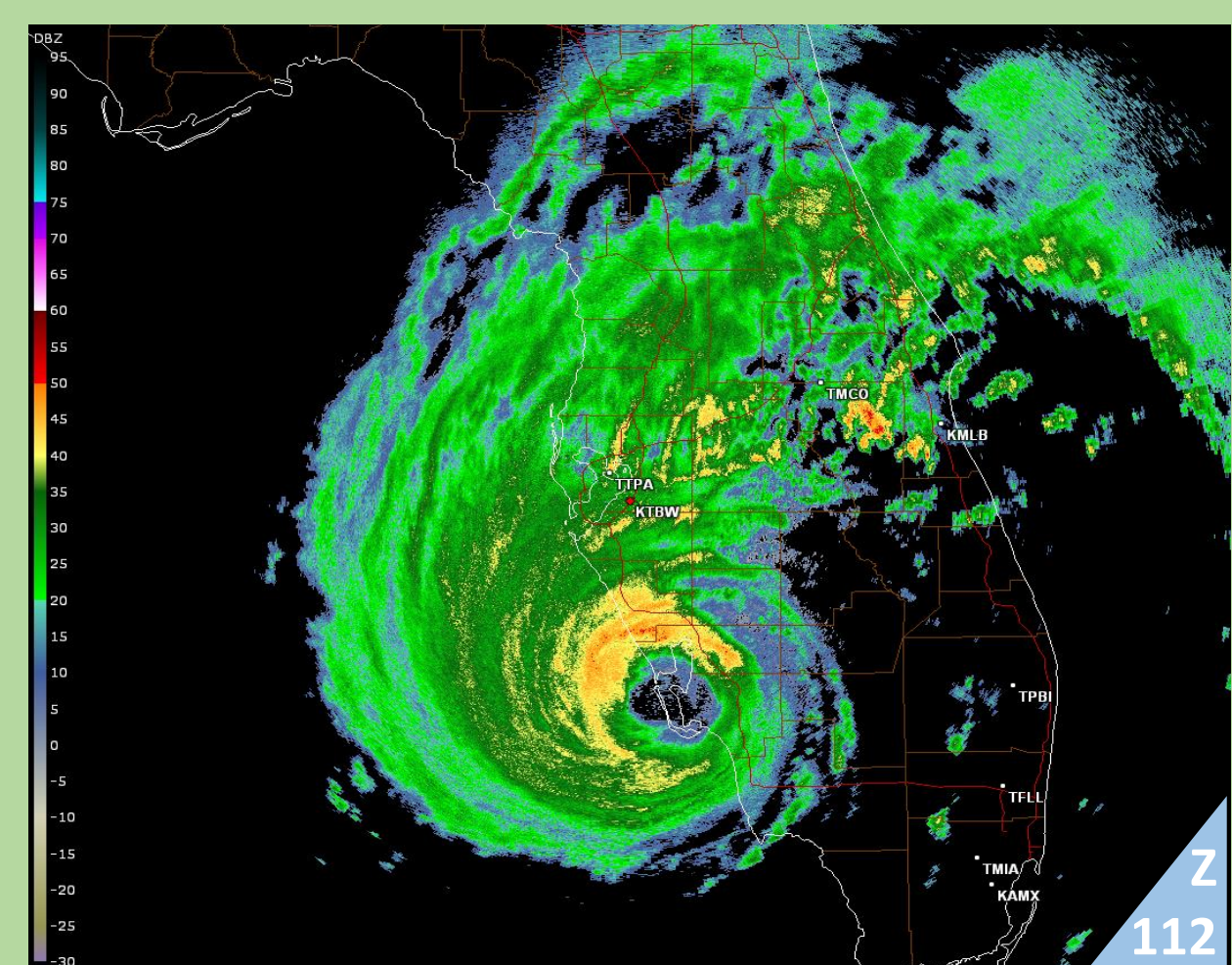
- 31: Boundaries or light precipitation
- 35: Light stratiform precipitation
- 215: Non-severe precipitation
- 112: Tropical & widespread precipitation
- 212: Severe weather
- 12: Non-wind severe weather

Apply Dynamic Scanning Strategy

Faster ← Volume Frequency → Slower			
AVSET On			AVSET Off
SAILS Off	SAILS 1	SAILS 2	SAILS 3
MRLE Off	MRLE 2	MRLE 3	MRLE 4
MPDA Off			MPDA On
General ← Type of Information → Specific			

Sensitivity

Speed



PRF Control

Close

Apply

Auto Refresh On

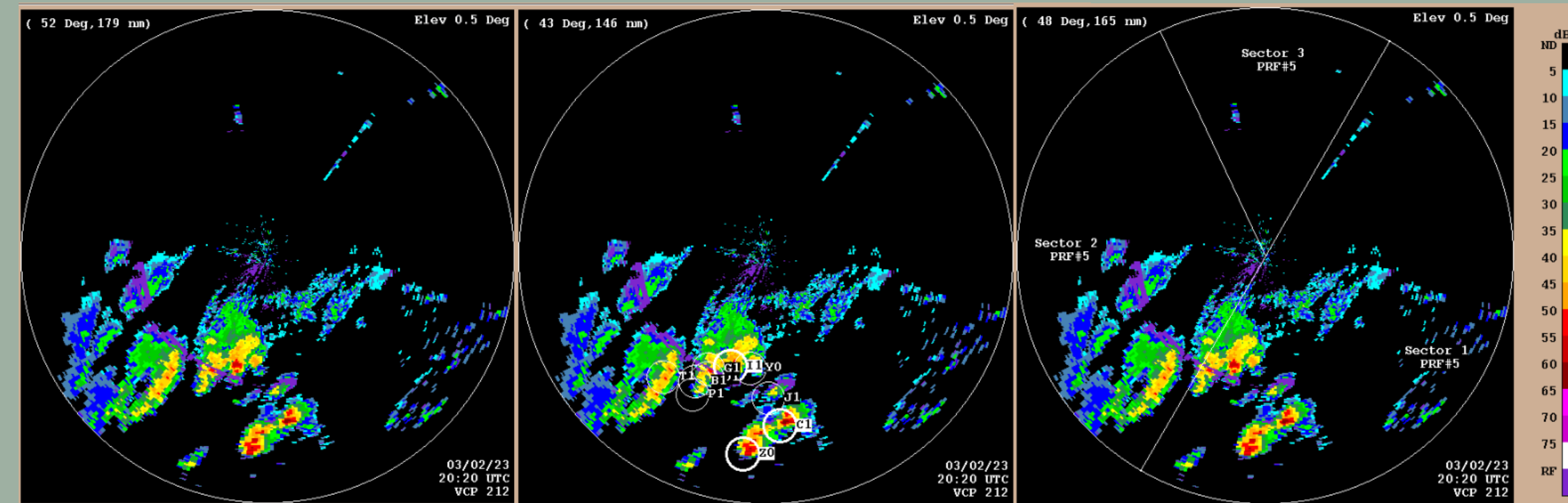
Show Labels On

Mode:

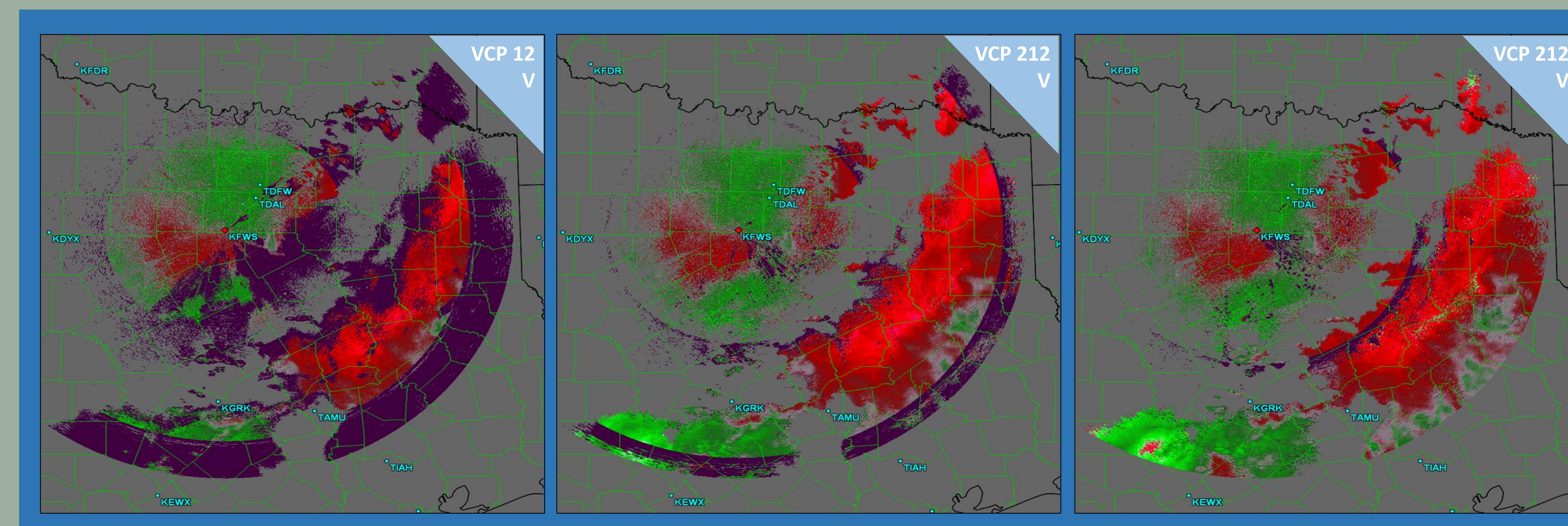
Auto PRF-Elevation

Auto PRF-Storm

Manual PRF

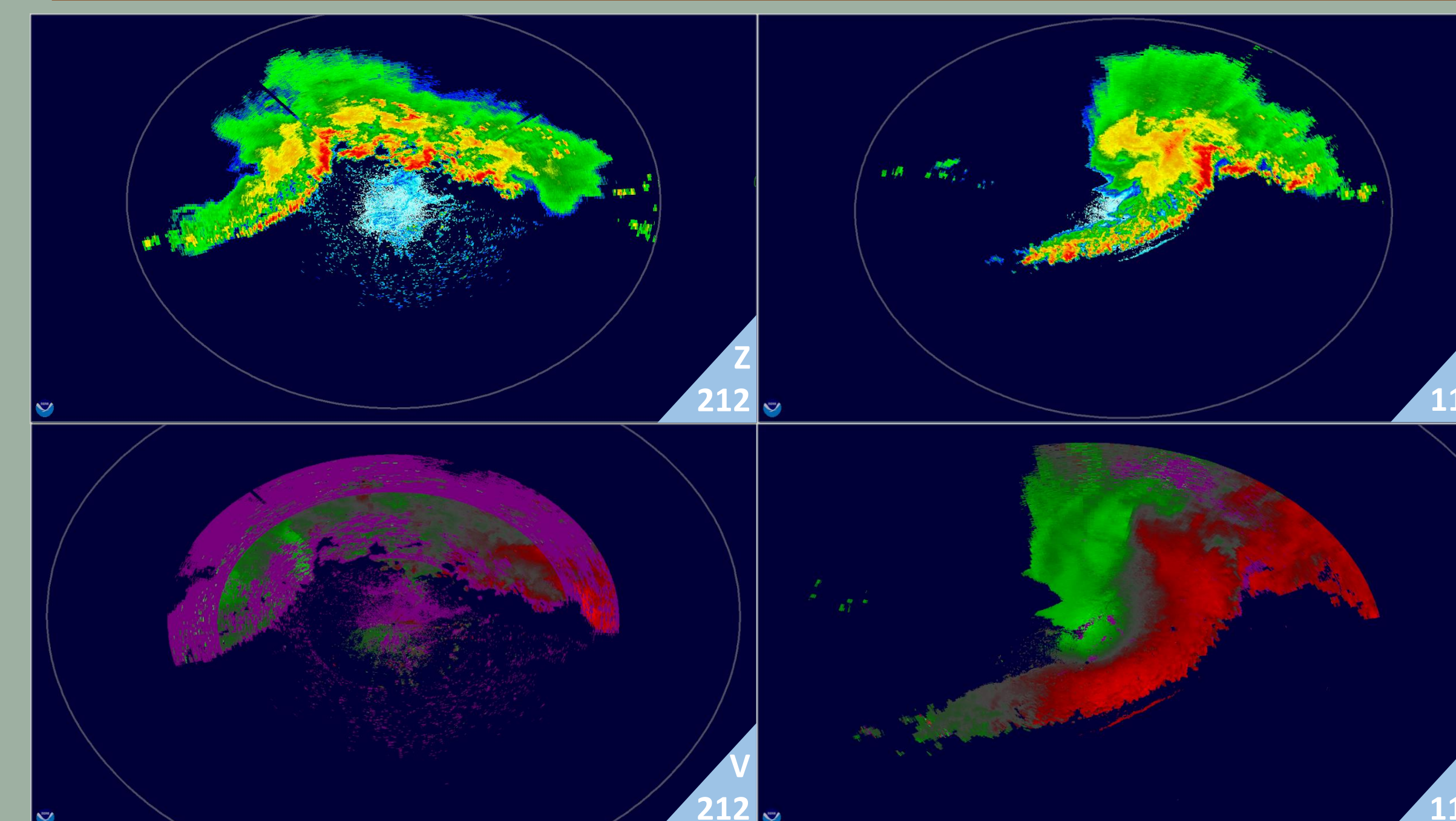


When using VCP 212, better velocity data and less range folding (RF) can be attained when the PRF changes using Multi-Storm Auto PRF.



Operating in Manual PRF gives operators the flexibility to select the best PRF for a given weather event.
Manual PRF remains invoked until it is changed to Auto PRF.
NOTE: It is important to return to Auto PRF when Manual PRF is no longer operationally needed.

PRF Range Ring placefiles aid in PRF selection.



MPDA combines velocity data from various PRF ranges to further reduce RF

