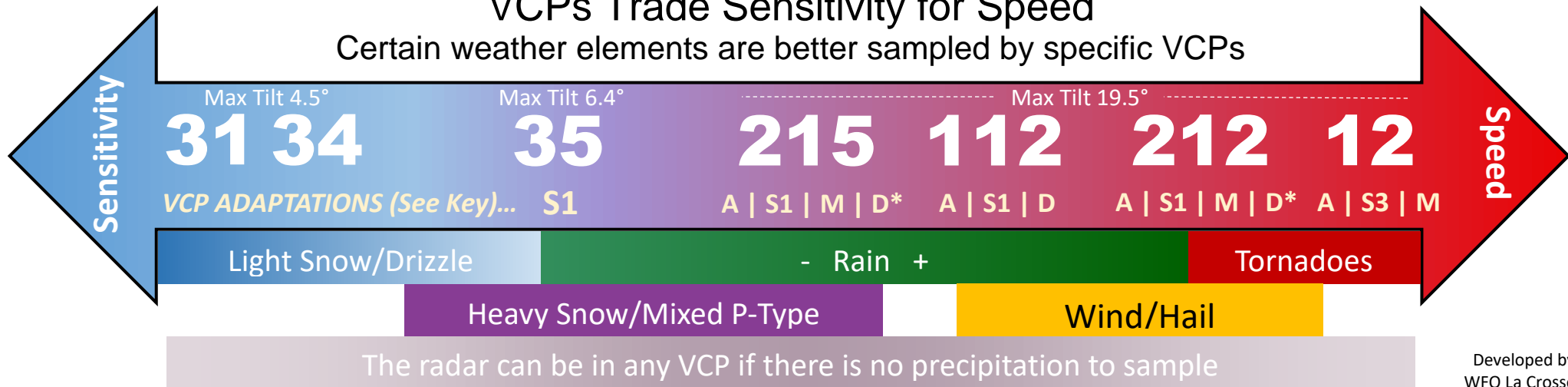


WSR-88D Volume Coverage Pattern Info Sheet

VCPs Trade Sensitivity for Speed
 Certain weather elements are better sampled by specific VCPs



Developed by
 WFO La Crosse
 Modified by the ROC

VCP Adaptations Key

- (A) AVSET – Terminates the VCP at any point above 6.4° if no significant weather echoes are present.
- (Sx) SAILS – Number of extra lowest elevation cuts supported that are executed at equally spaced intervals in the volume scan.
- (M) MRLE – Rescan of the lowest 2, 3, or 4 elevations midway through the volumes scan (cannot be used with SAILS).
- (D) Multi-PRF Dealiasing Algorithm (MPDA) – Utilizes two scans in each of the lowest three elevations to improve velocity data.
- (D*) Add MPDA – Enables MPDA in VCPs 212 and 215 for the lowest one or two elevations when selected by the operator.

Convective VCP Decision Matrix

	VCP 215	VCP 112	VCP 212	VCP 12
Supports	SAILS (x1), MRLE, & Add MPDA	SAILS (x1)	SAILS (x3), MRLE, & Add MPDA	SAILS (x3) & MRLE
Volume Update Time *With AVSET terminating at 6.4°	6 min / 7 min Base Tilt 4.5 min / 5.5 min Base Tilt*	5.6 min / 6.7 min Base Tilt 4.5 min / 5.6 min Base Tilt*	4.6 min / 5.3 min Base Tilt 3.5 min / 4.2 min Base Tilt*	4.3 min / 4.8 min Base Tilt 3.2 min / 3.7 min Base Tilt*
Notes	Best vertical coverage Best overall reflectivity data quality	Best overall velocity data quality Least amount of range folded data	Data can be less smooth Velocity data can be noisy at trip boundary	Susceptible to range folding Data can be less smooth Requires most user intervention for velocity interrogation
Modes	Non-Tornadic Convection and General Precipitation	Widespread Non-Tornadic Convection	All Convective Modes	Discrete/Local Convection