New DOW6 and DOW7
New mini-COW configuration of the CROW

FARM: Flexible Array of Radars and Mesonets:
Adaptable Radar, Mesonet, Sounding network

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Updated for 2024
NEW For 2024

Mini-COW:
Configurable Radar On Wheels (CROW): Rapid-Scan DOW, DOW6, DOW7

Old DOW6 & DOW7 upgrades: New Trucks, New Transmitters
Common cabin design (based on 15 years of learning what works best)

New DOW and DOW7:
Old DOW6 Commissioned in 2008, before VORTEX2
Projects: VORTEX, JOINT, TIWALL, PECAN, OUTFLUX, GOWLS, NIXTIDE, GRIANEX, RELAMPAGO, Several Hurricanes, LEE, WHITNEY, PERILS, BEST, dozens of educational projects.
200+ (Dow6+7) trucks... Thousands of transmitters, high/low antenna focus, hundreds of TB of data, tens of thousands of logs and antenna scans, hundreds of years of travel, thousands of miles on wheels, tens of thousands of hours on wheels, marooned on mountains until July.

DOW6 and DOW7: It is time to move to peaceful pastures
DOW6 and DOW7: New Trucks, New Transmitters

Operators front facing
Each operator has exit
Both racks have inside and outside easy access
Identical DOW6&DOW7 configuration

On-existing CROW (Rapid-Scan, DOW8) platform
Full time series recording, TITAN, GURU, bistatic compatibility.
50 degrees/second scanning
Staggered PRT (while dual-polling): up to 6000 Hz, so any Nyquist you want
Dual-polarization: 45-degree transmit, H and V receive: ZDR, phi-DP, rho-HV
Configurable Radar On Wheels (CROW): Rapid-Scan DOW, DOW8

Sloping cabin minimized beam blockage
H and V range

Min-COW:

FARM radar specifications

FARM In situ specifications

PodNET

Mobile Mesonet

Mobile Soundings

In situ, PODNET, POLENET, Mobile Mesonet, Soundings, Disdrometers