

CAR BASED MEASUREMENTS OF A DOWNSLOPE WINDSTORM DURING PHASE I OF T-REX

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Abstract: During the pilot field phase of the Terrain-induced Rotor Experiment (T-REX) in spring 2004 fixed weather stations, wind profilers, and radiosondes measured the flow across the Sierra Nevada into the Owens Valley. Also deployed was an instrumented car that measured static pressure, temperature, dew point, 3D-position and displacement, and 2D wind. Its purpose was to document with high spatial resolution the diurnally-changing footprint of downslope windstorms in the Owens Valley and across the Inyo and White Mountains to the east. An exemplary case of a downslope windstorm will be shown.