

Dust Devils and Convective Vortices Observed by Mars 2020 Perseverance

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Perseverance

Mastcam-Z
Zoomable Panoramic Cameras

SuperCam
Laser Micro-Imager

MEDA
Weather Station

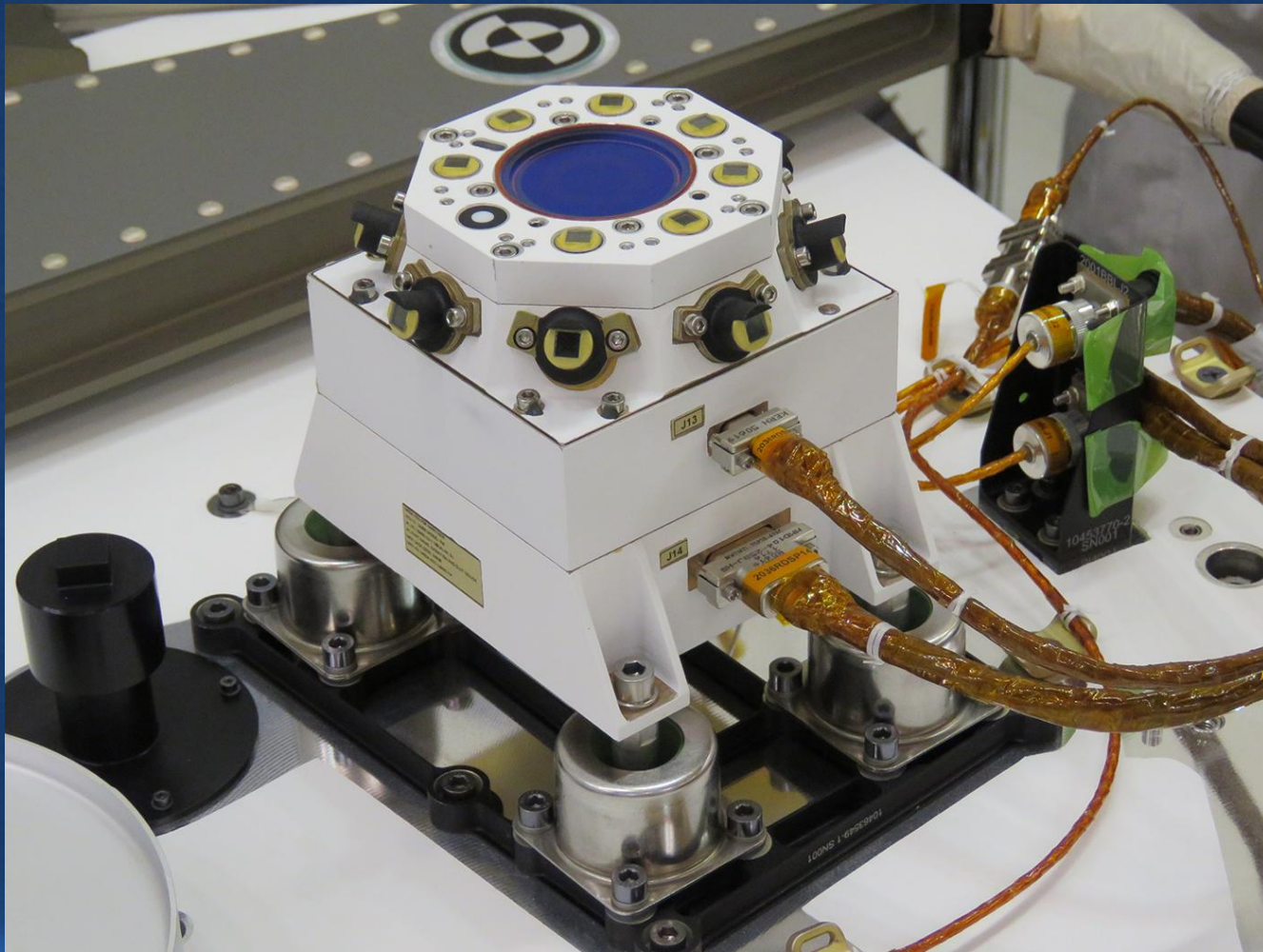
SHERLOC
Ultraviolet Spectrometer
WATSON (Camera)

RIMFAX
Subsurface Radar

PIXL
X-ray Spectrometer

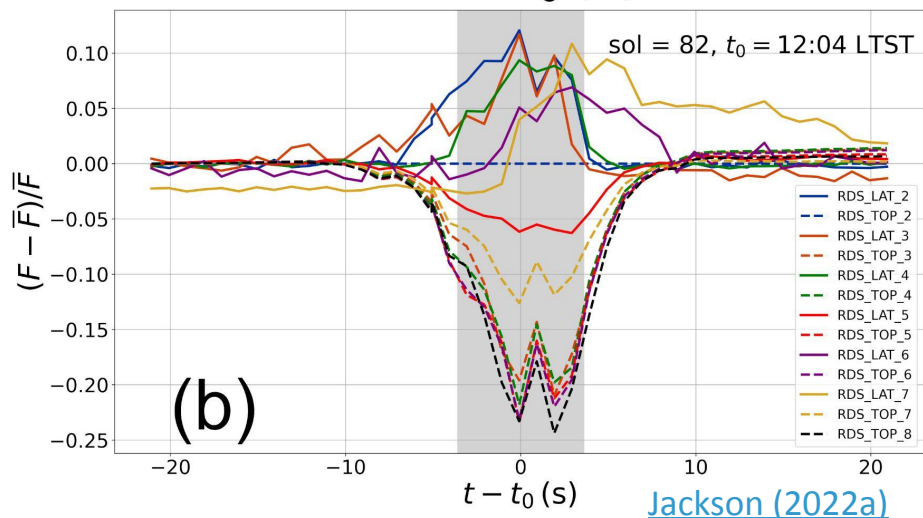
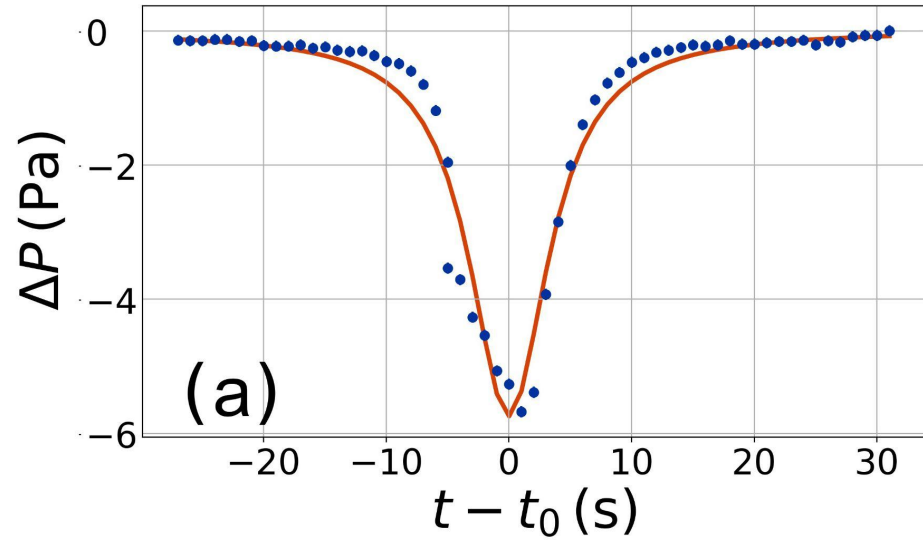
MOXIE
Produces Oxygen from Martian CO₂

<https://mars.nasa.gov/mars2020/spacecraft/instruments/>



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<https://mars.nasa.gov/resources/25394/medas-radiation-and-dust-sensor/>



Takeaways

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- About 1/4 of vortices showed dust signatures from almost transparent up to Los Angeles on a smoggy day.
- More details and manuscript links at boi.st/mars2020dustdevils.



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