DustCam Project

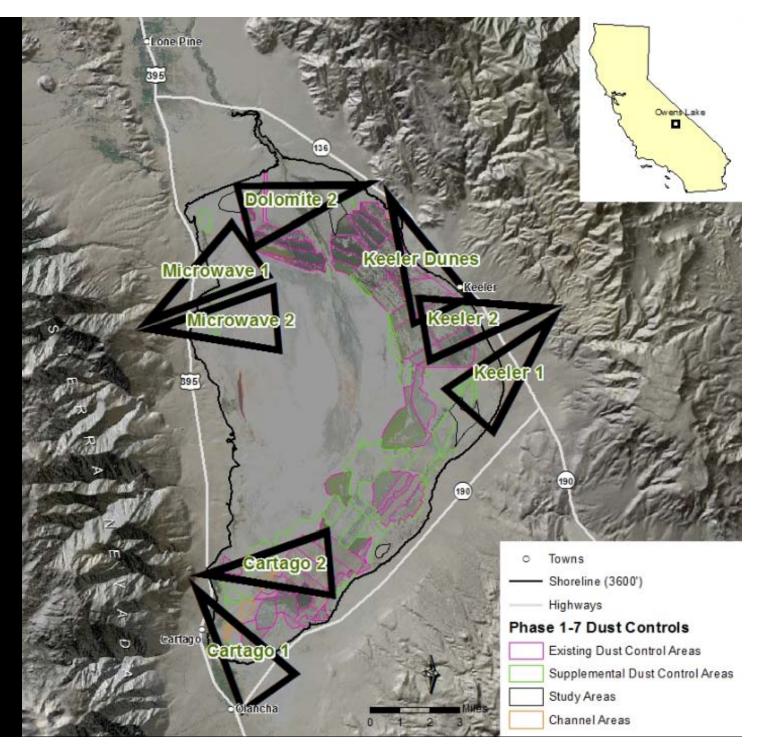
Georeferencing Terrestrial Imagery for Dust Emission Identification

Keeler Dunes





DustCam Program Coverage





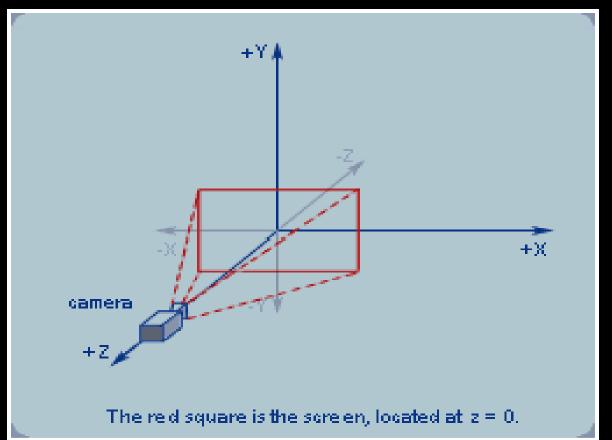
Video Sequence

April 25, 2011



Georeferencing Terrestrial Images

- Transforming Terrestrial Imagery to Geographic Coordinates
- Must Know What Every Pixel in the Flat Image Represents in the Real World



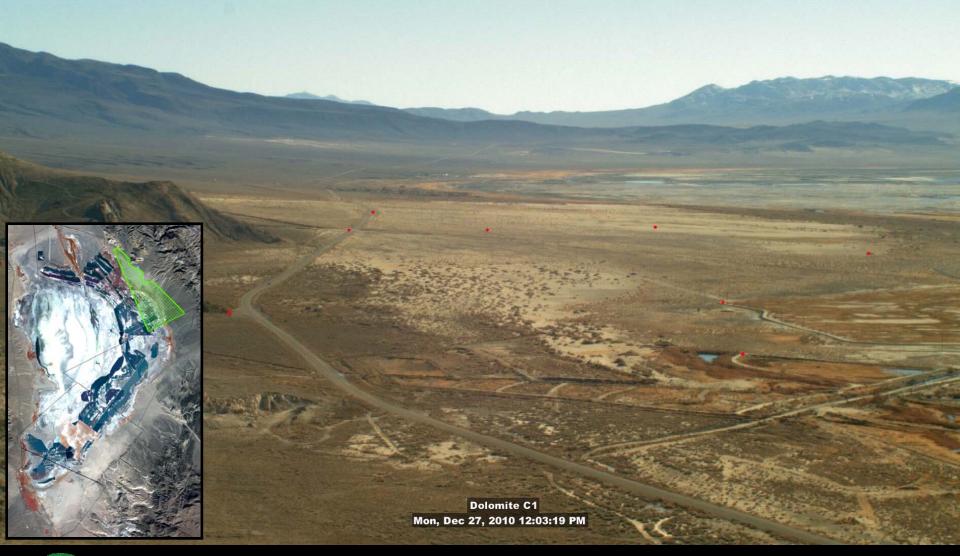


Transformation Concept

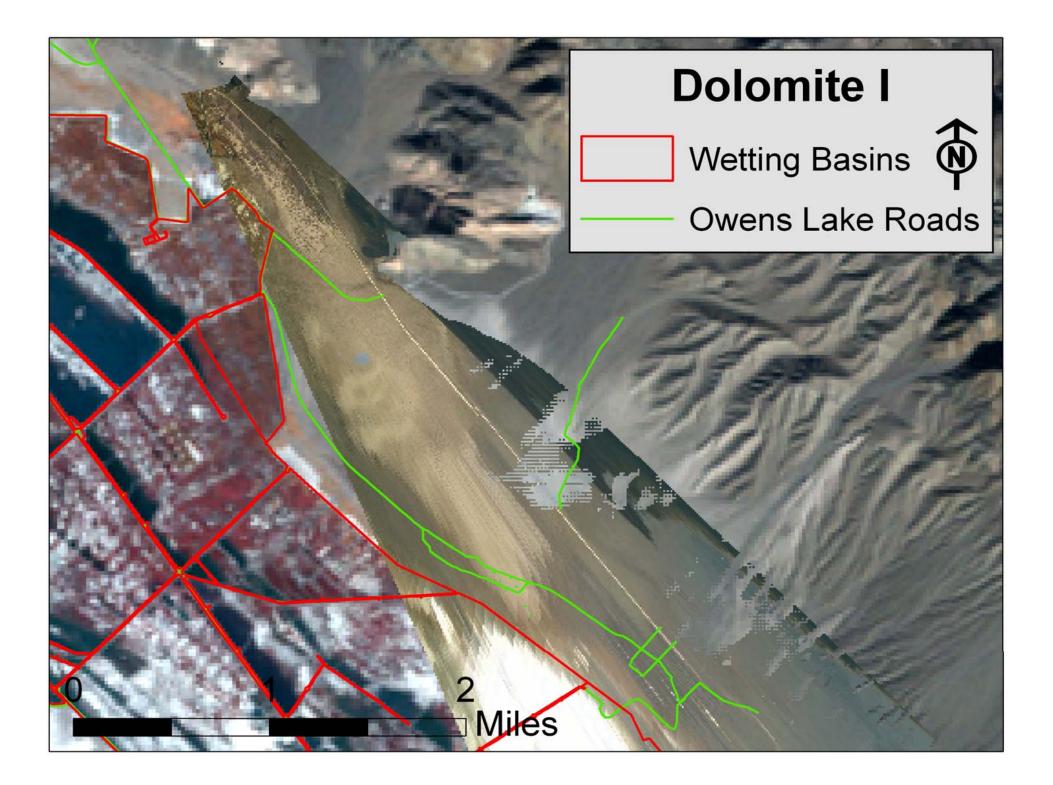




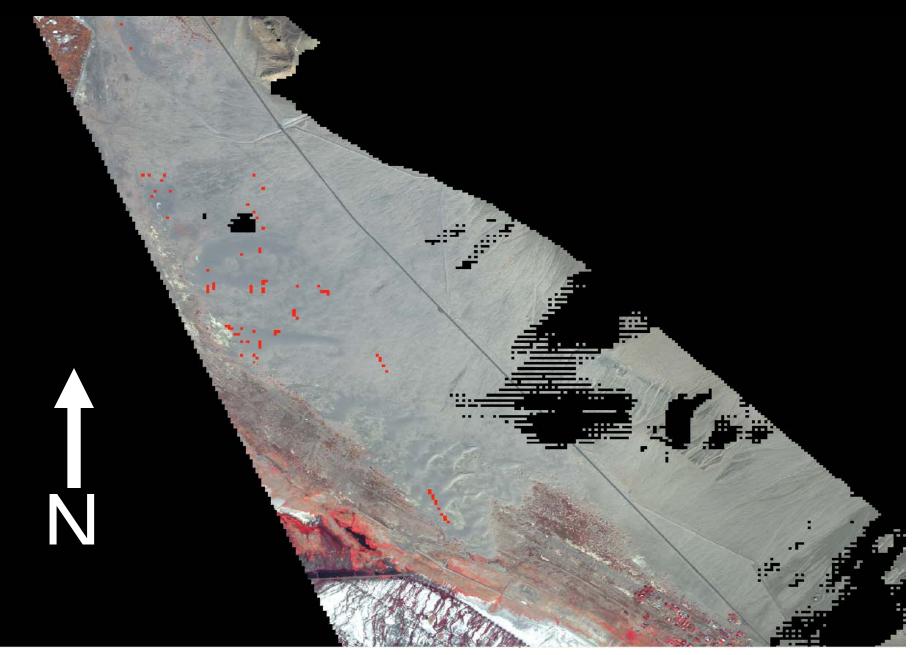
DustCam Images: Dolomite I



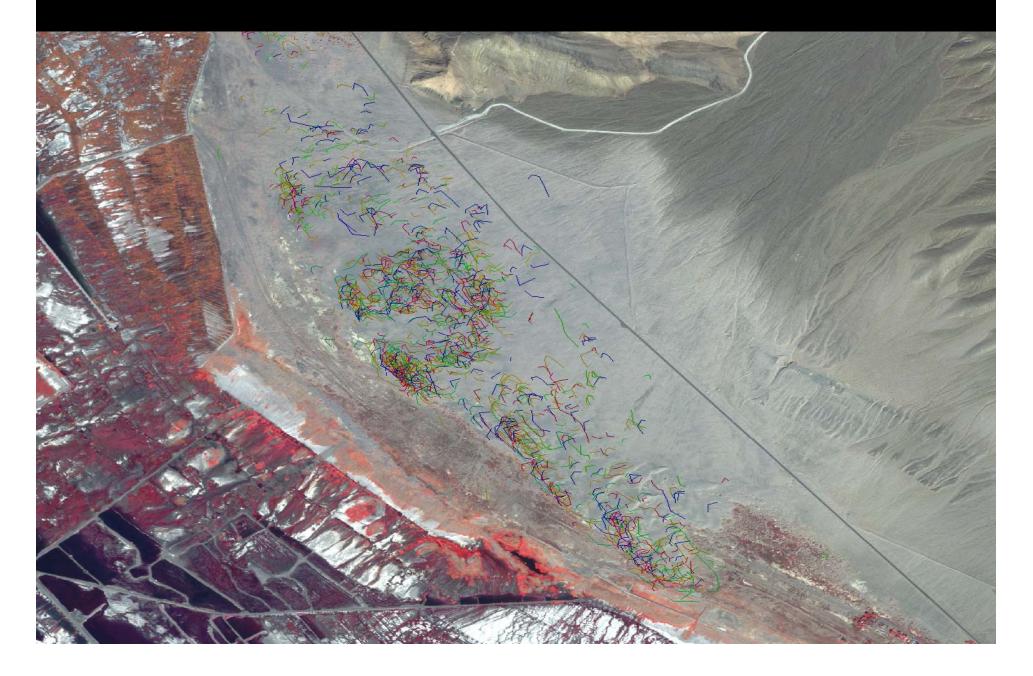


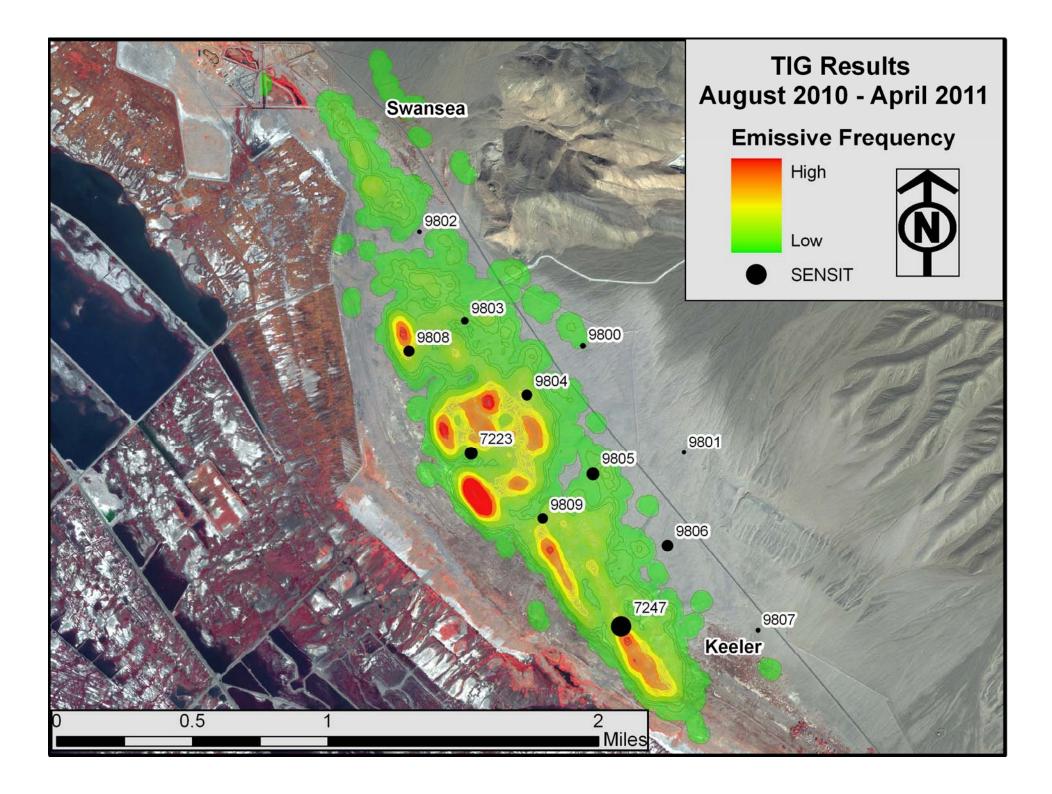


Transformed Dust Source Zones



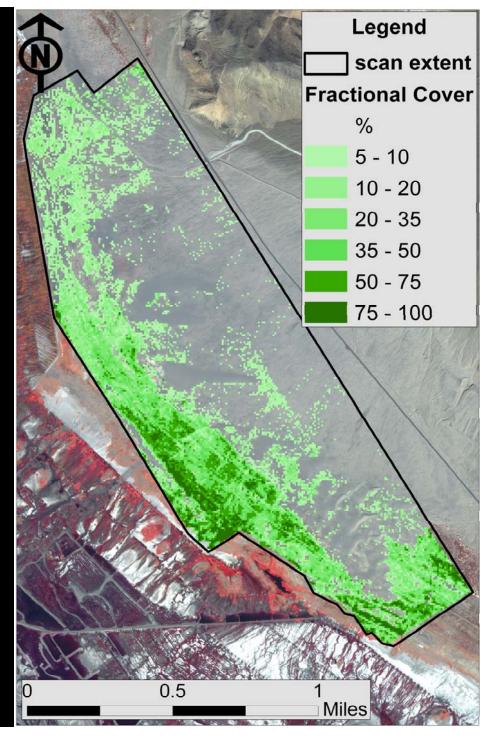
Raw TIG Results: Aug 2010 – APR 2011





Vegetation Density

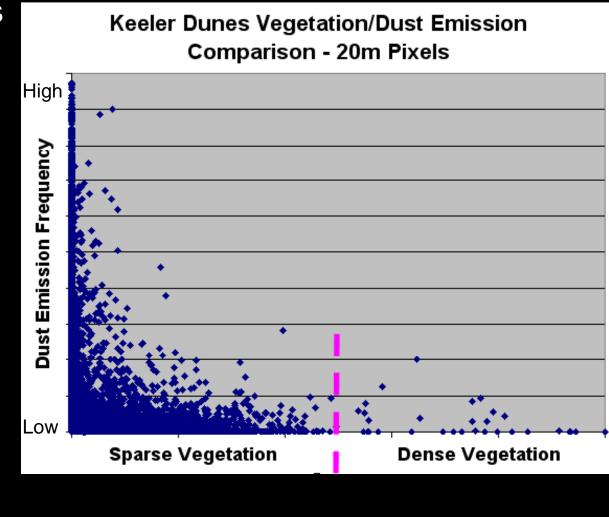
- Fractional Cover
- HydroBio High Resolution Aerial Imagery





Vegetation/Dust Emission Comparison

- DustCam Results
- Vegetation
 Density





Questions

