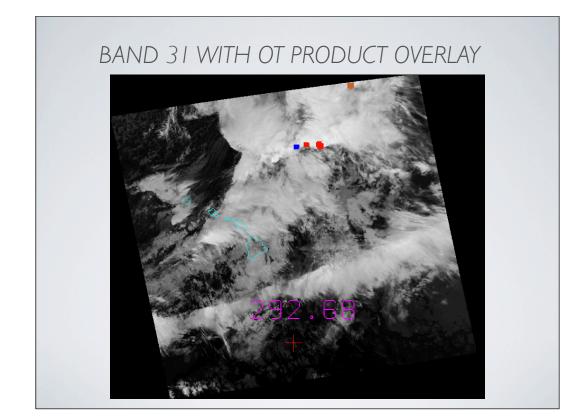
HAWAII SEVERE WEATHER!!

March 6, 2012 Bob Ballard & Vanessa Almanza

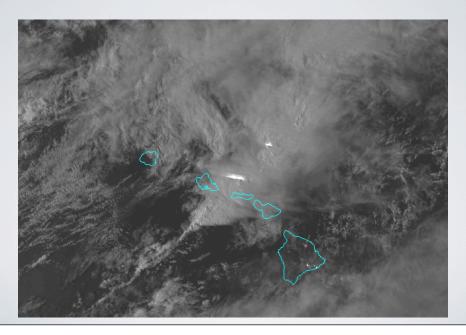
MOTIVATION

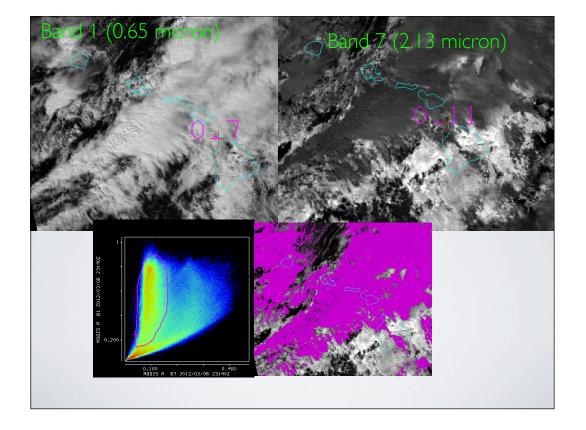
- Looked for areas that could be hazardous to aviation
 - Lightning
 - Overshooting tops
 - Layered clouds with icing potential
 - Areas of potential turbulence (mechanical or convectively induced gravity waves)
- Compared MODIS and VIIRS resolution at edge of swath

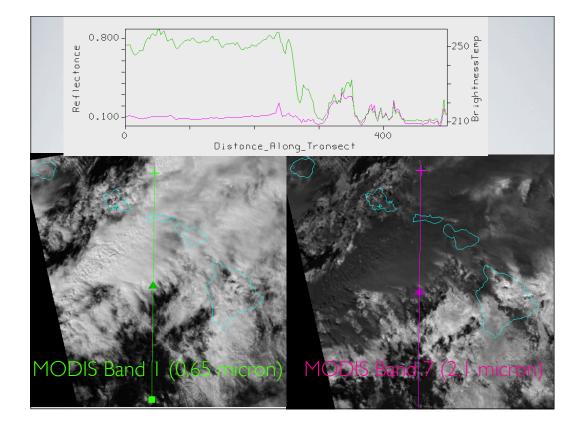


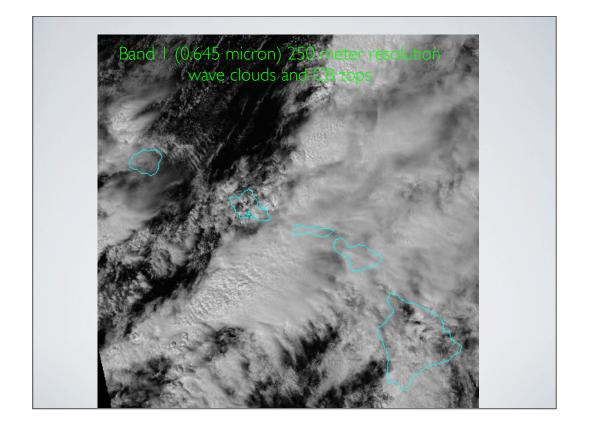


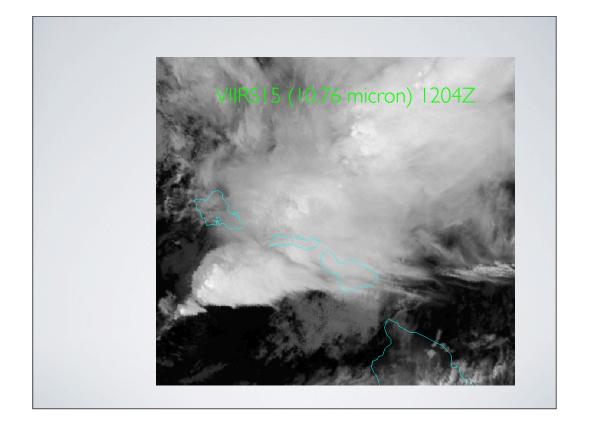
DNB LIGHTNING..IT'S VERY FRIGHTENING 1204Z











SUMMARY & CONCLUSIONS

- The polar satellites provided high resolution visible and nighttime imagery to analyze areas that are high risk for turbulence, lightning and potential icing.
- VIIRS provided higher resolution nighttime thermal imagery than MODIS.
- MODIS band I and 7 can be used to determine clouds properties.