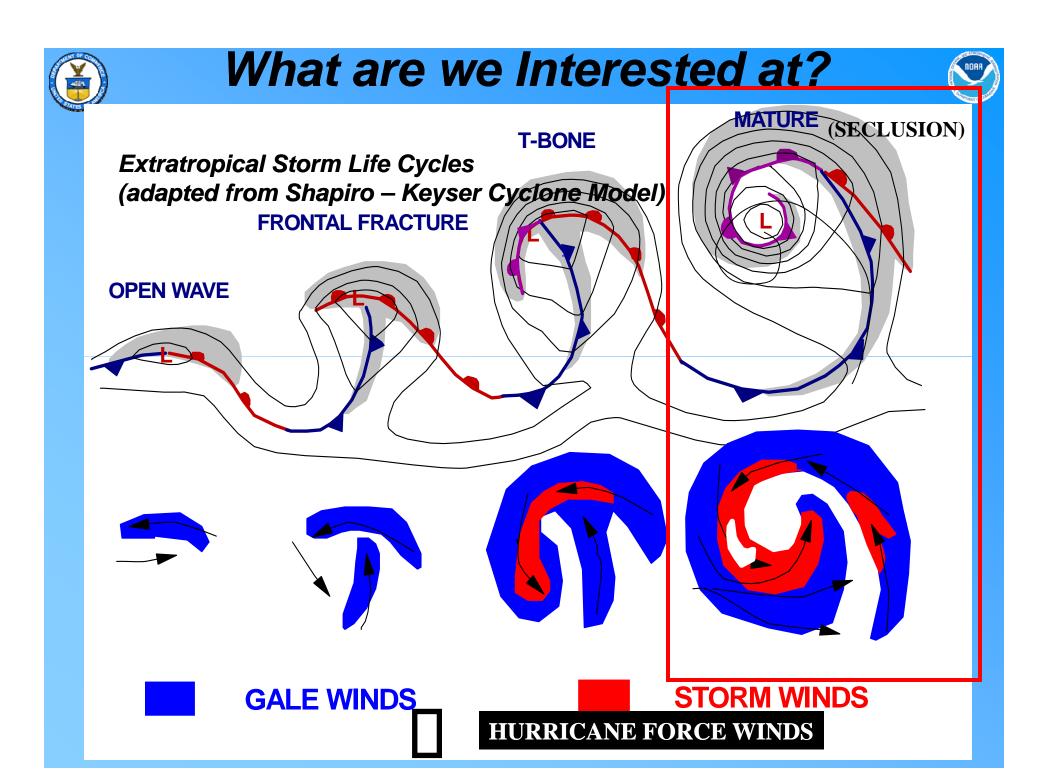




Study of Wind Field within Extra-Tropical Cyclones during Hurricane Force Events in the North Pacific using QuikSCAT and ASCAT Scatterometer Measurements

Zorana Jelenak Khalil Ahmad Joseph Sienkiewicz and Paul S. Chang

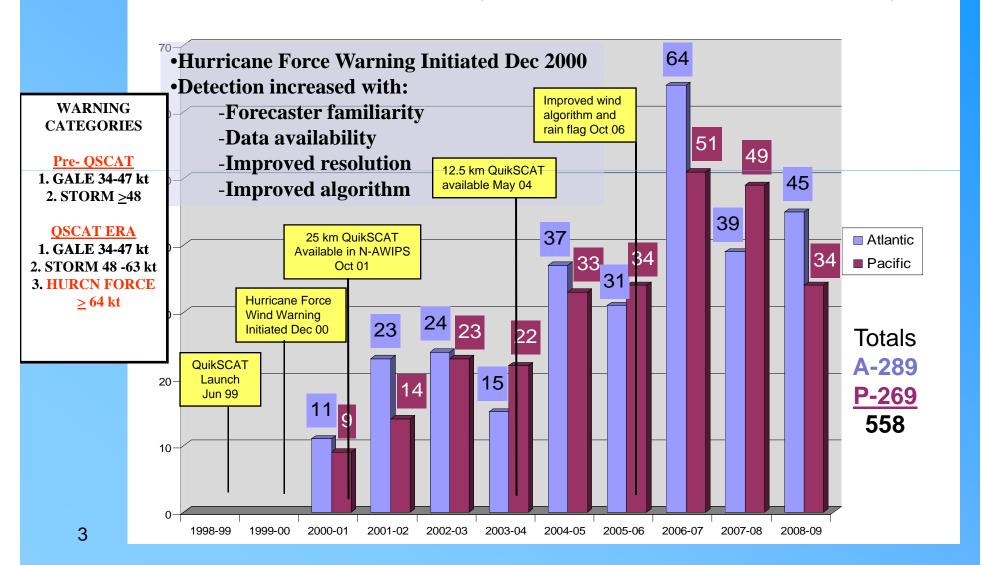


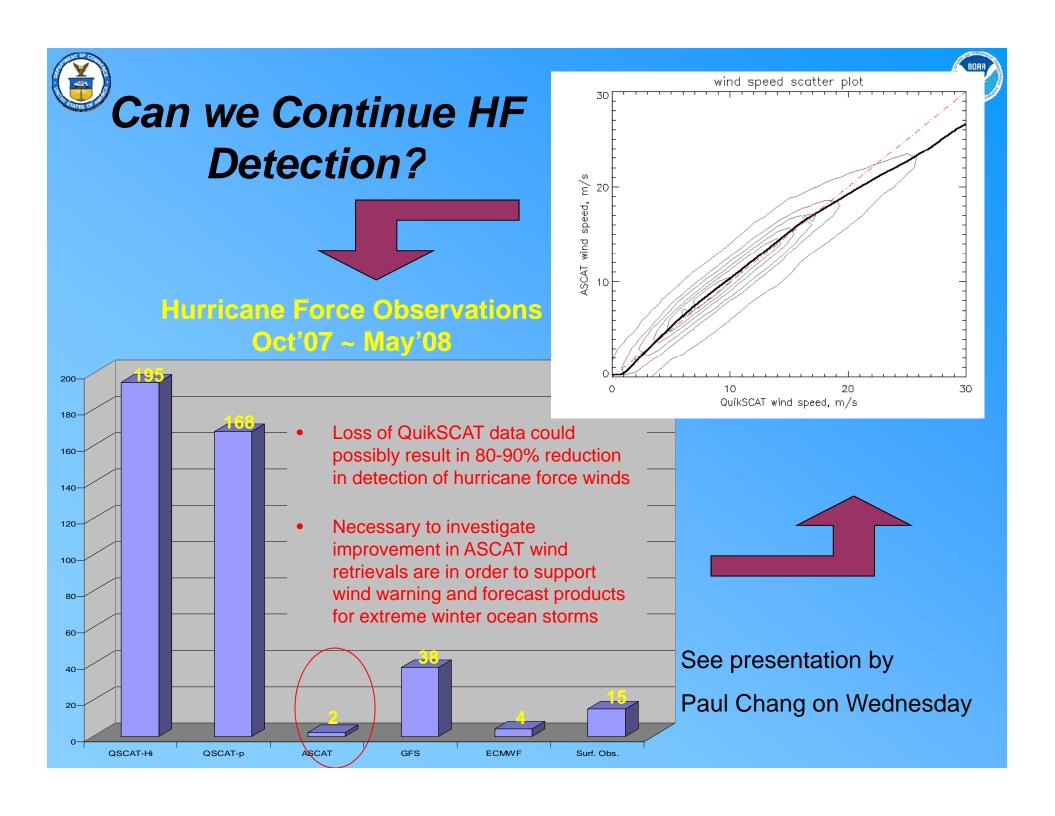




How successful were we so far?

Hurricane Force Extratropical Cyclones from September 2001 to May 2009

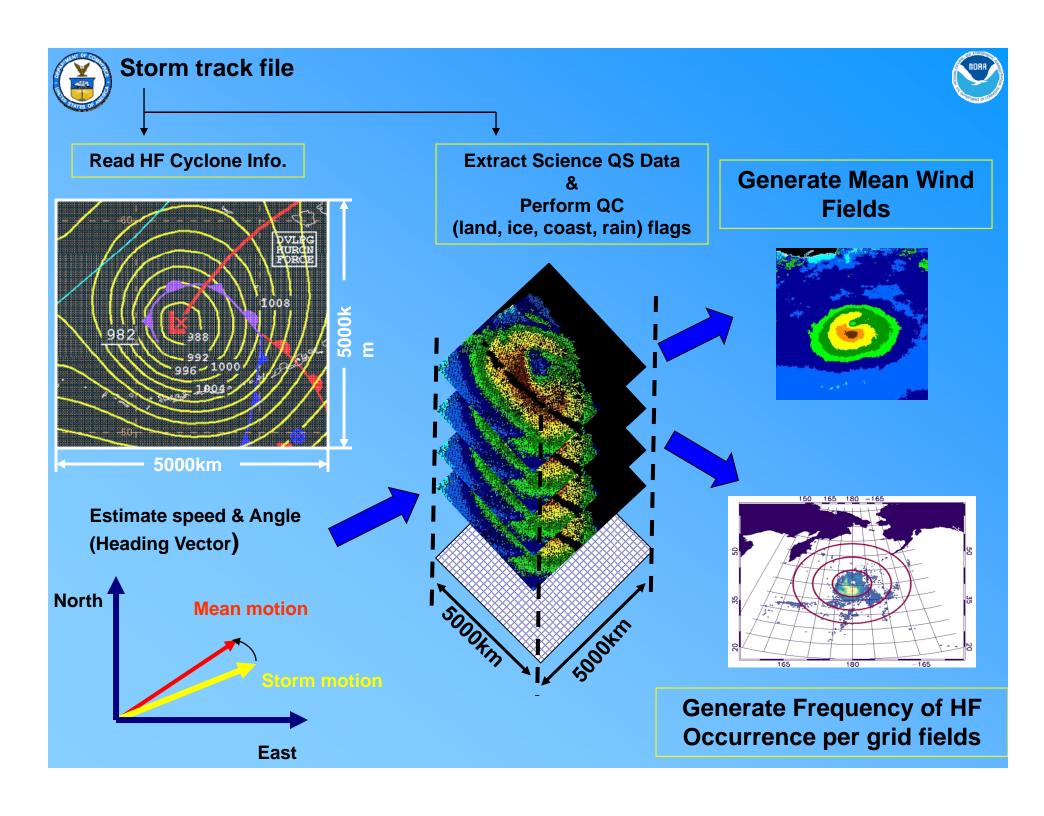




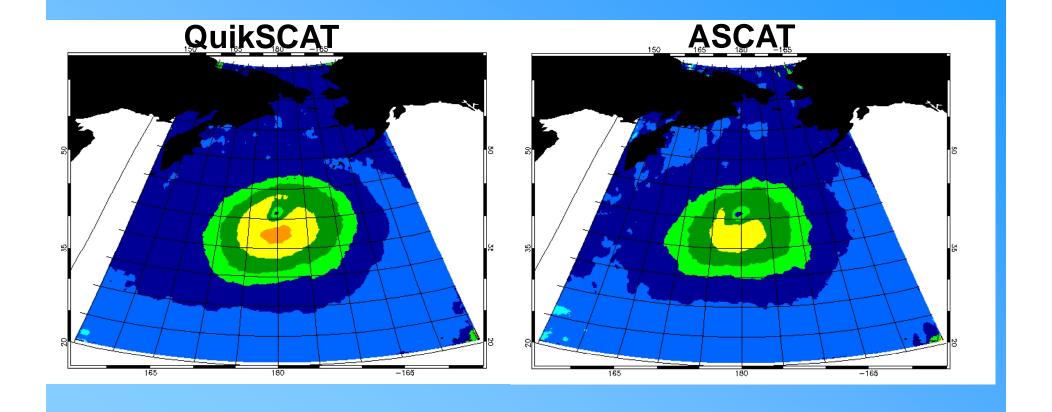




Wind Field Composites and QuikSCAT - ASCAT Comparisons

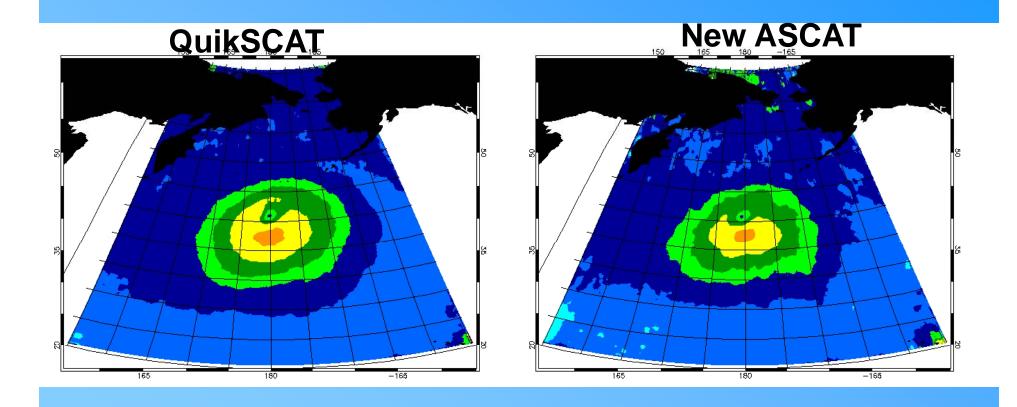


Mean Wind Speed Field 2007-2009 Winter Seasons - North Pacific



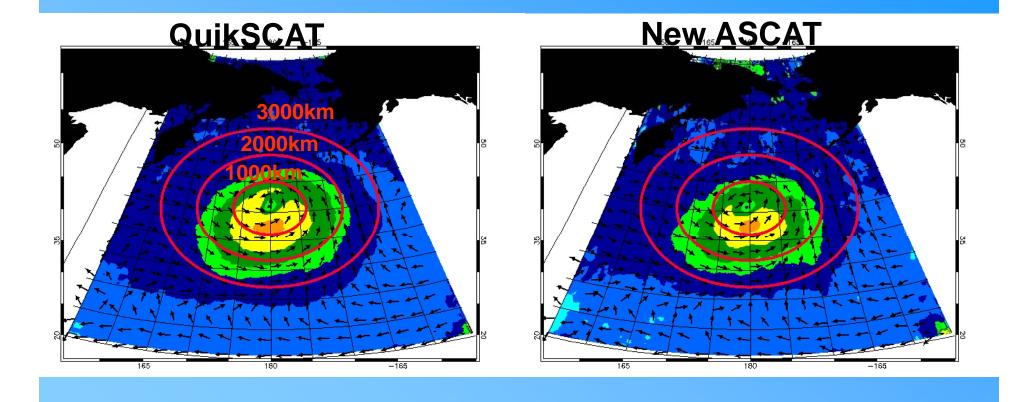


Mean Wind Speed Field 2007-2009 Winter Seasons - North Pacific

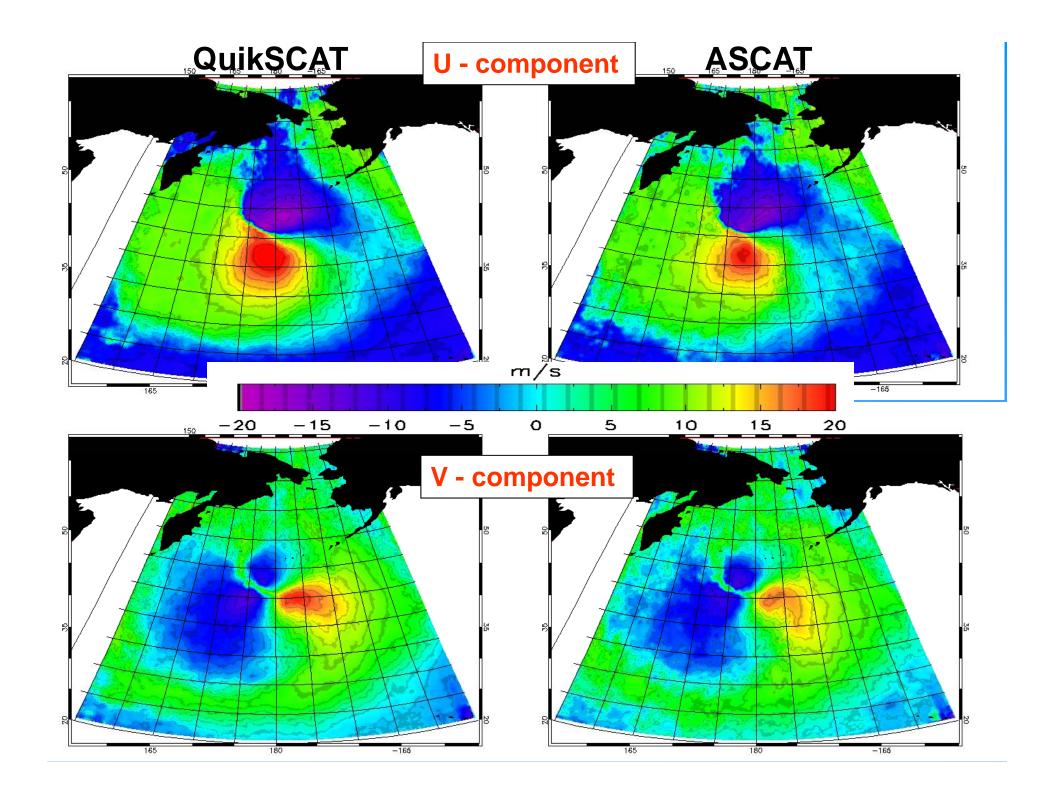


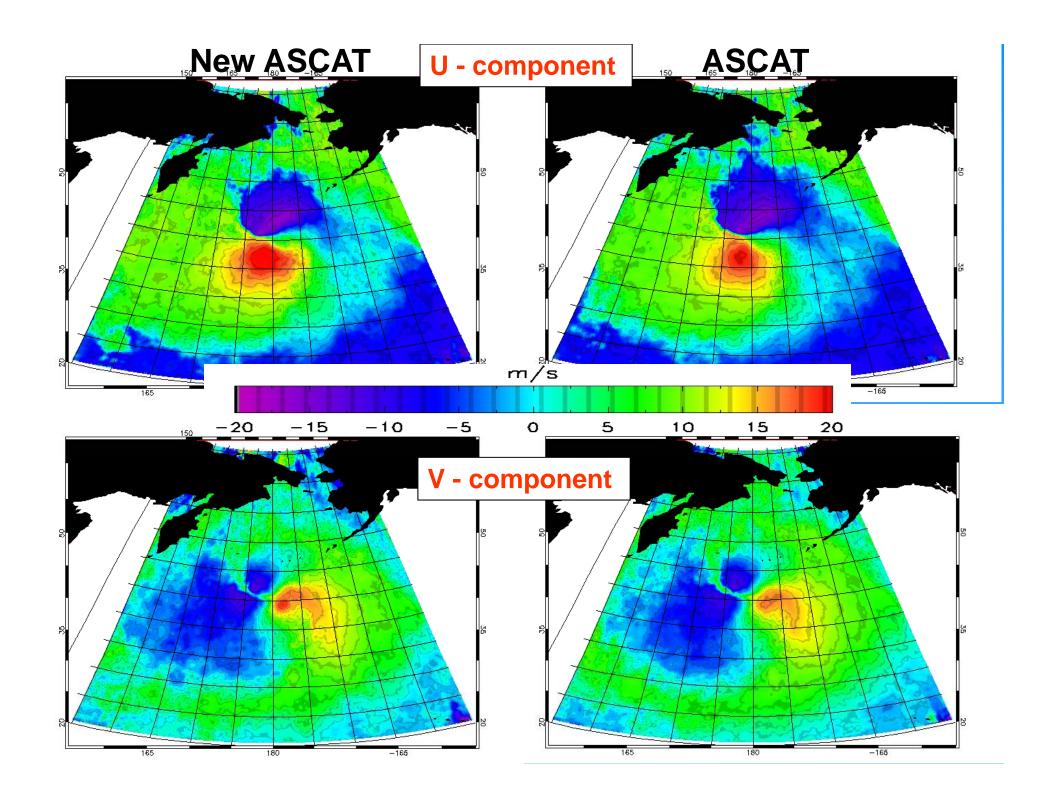


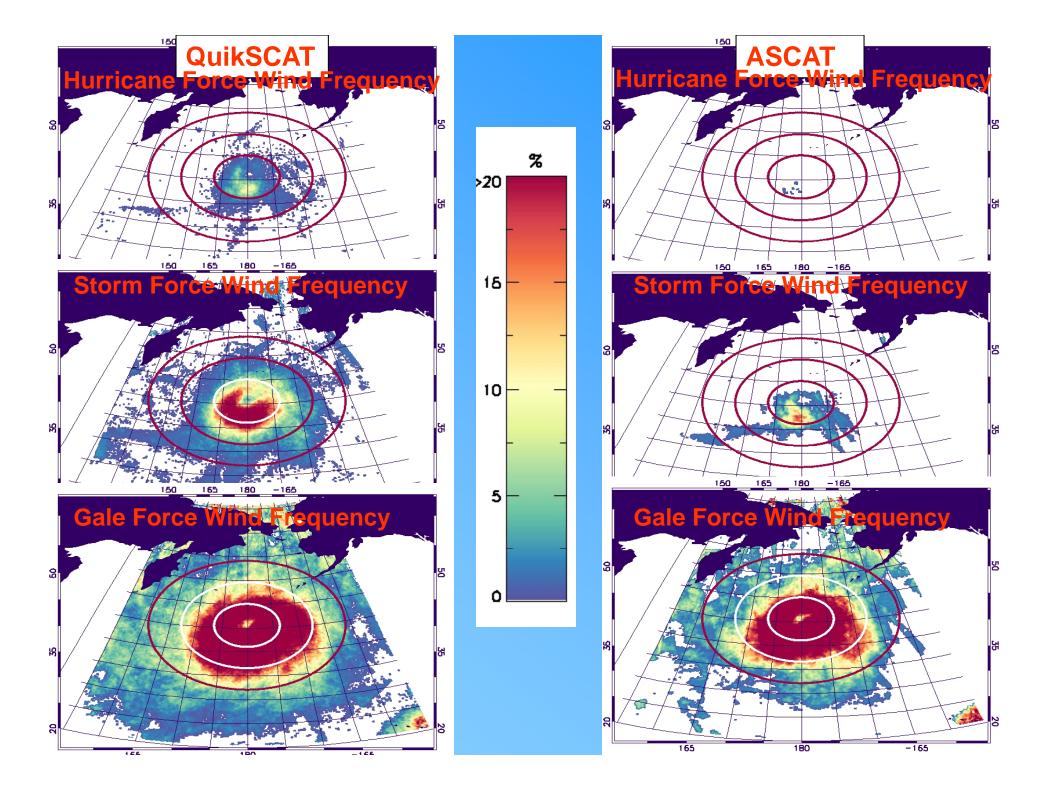
Mean Wind Speed Field 2007-2009 Winter Seasons - North Pacific

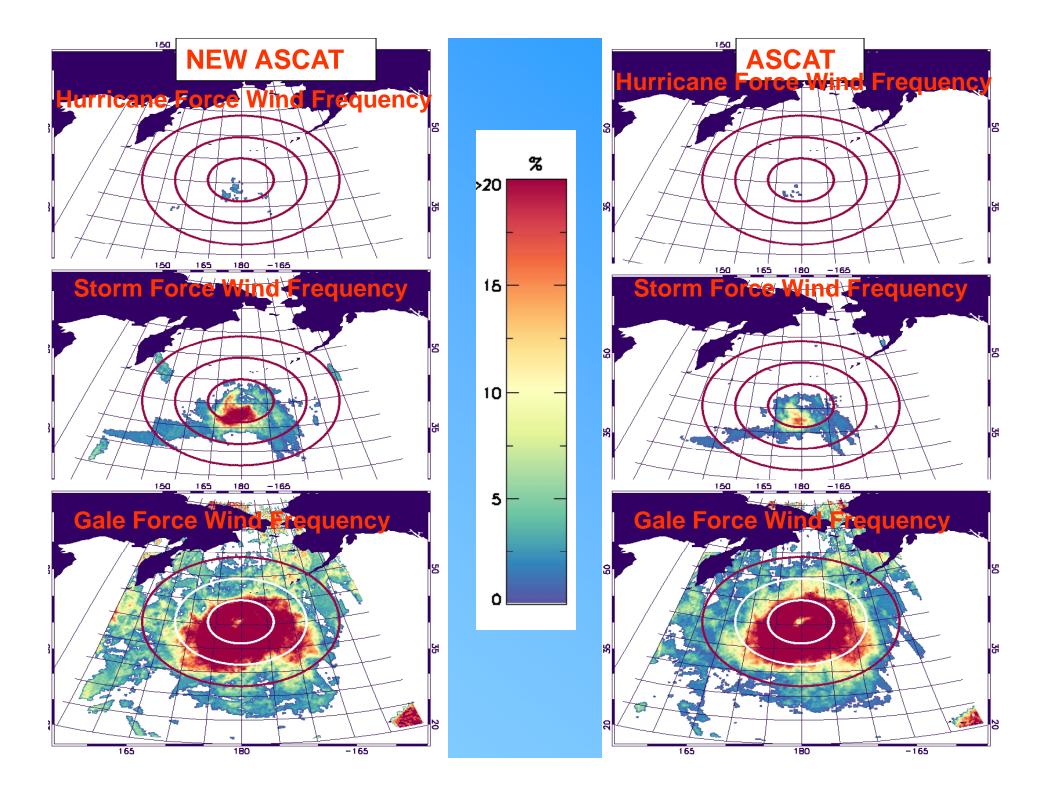


Wind Speed (knots)





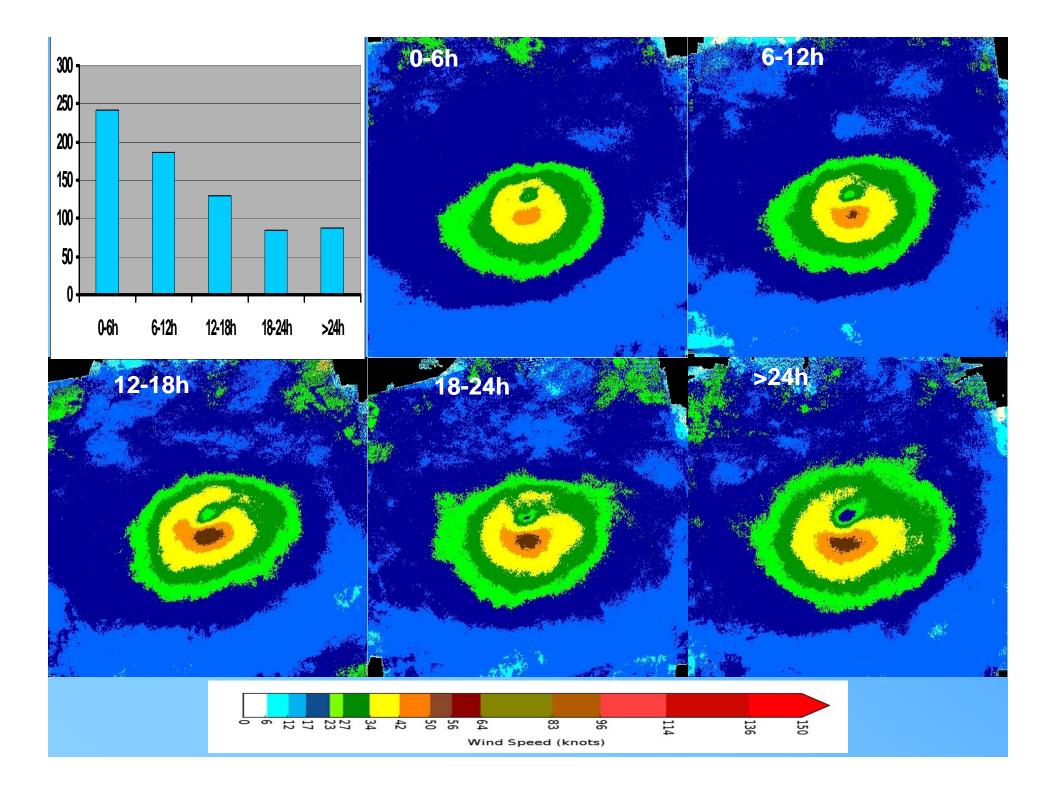


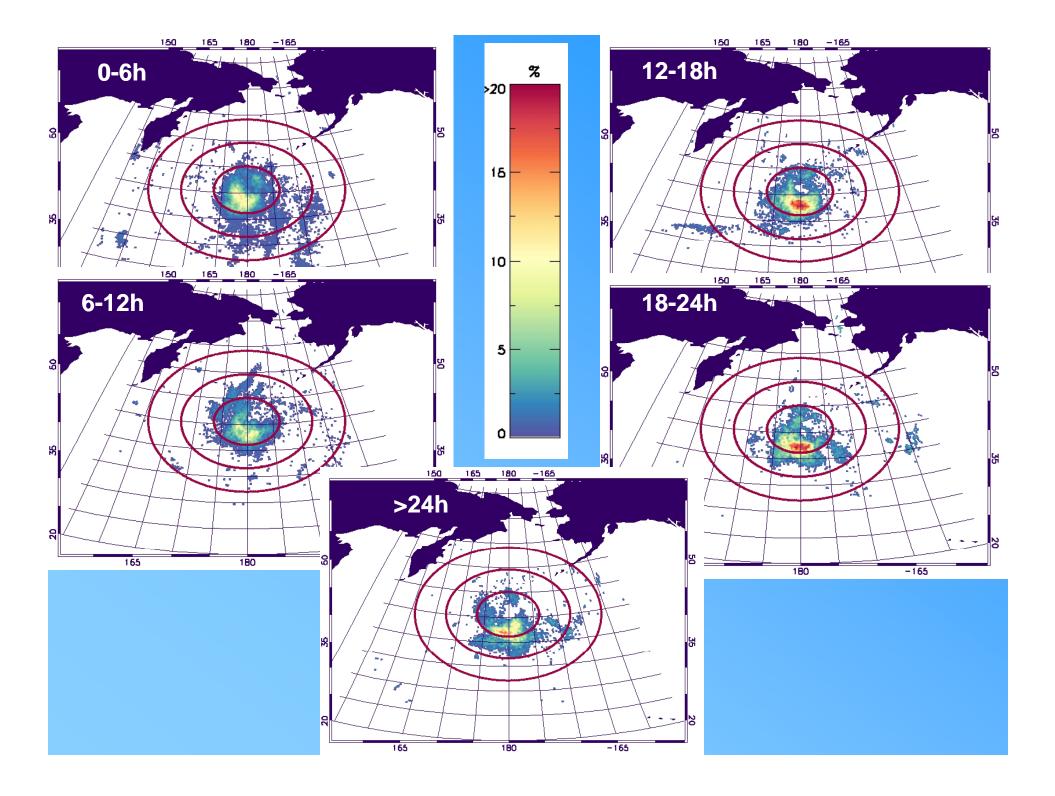






Monthly Wind Speed Distribution for 8 Consecutive North Pacific Winter Season using QuikSCAT Measurements







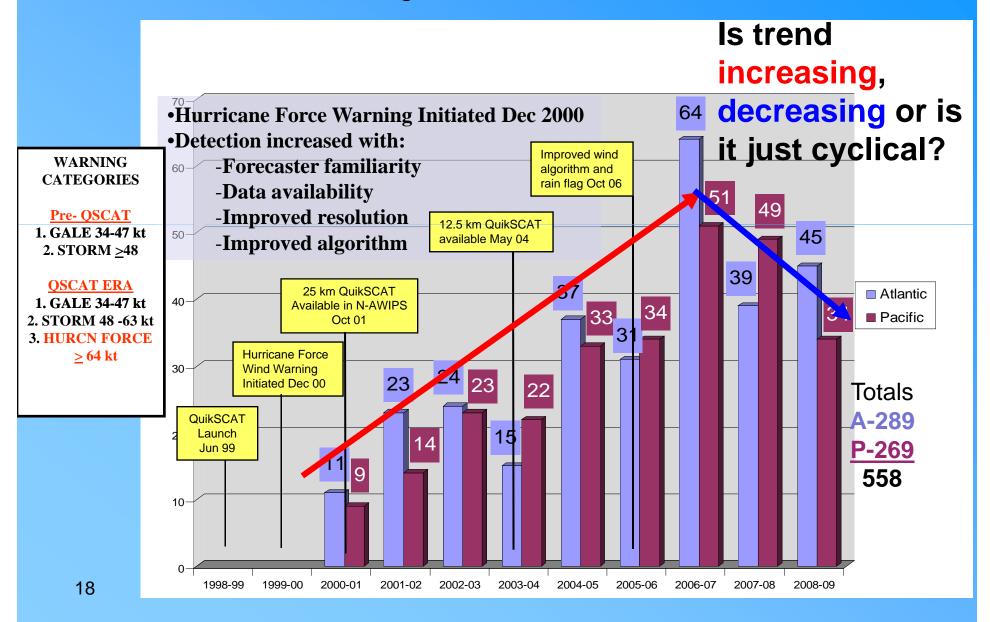


HF Cyclone Trend





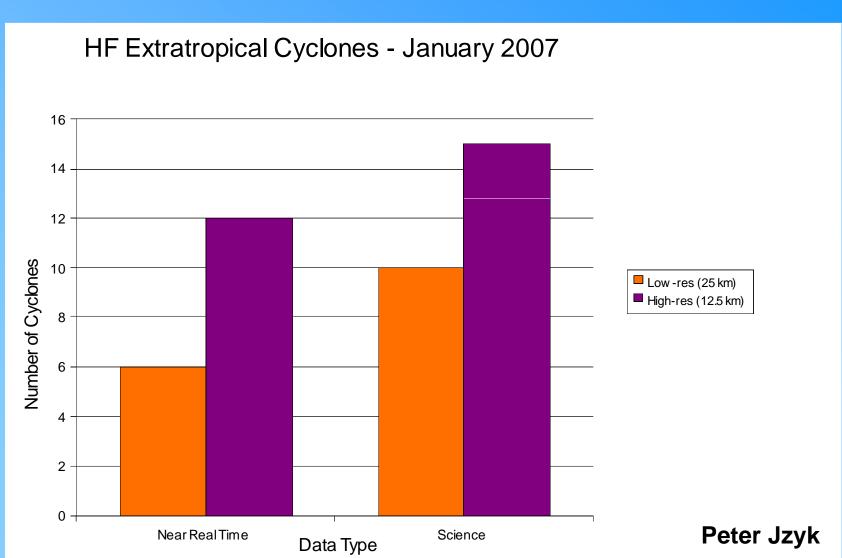
HF Cyclone Trend?







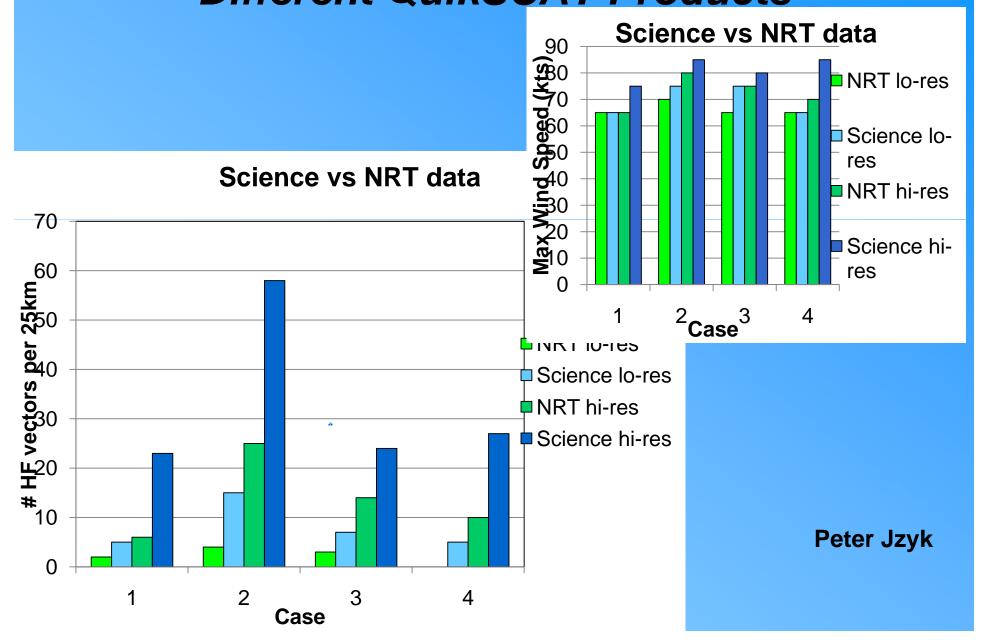
Number of HF Cyclones Using Different QuikSCAT Products – January 2007





Wind Distribution and Maximum Using Different QuikSCAT Products









Conclusions and Future Work

- Model function have significant impact on HF cyclone characteristics, detection and trend
- QuikSCAT directional errors became apparent when looking into zonal and meridional wind component fields
- Looking forward to reprocessed QuikSCAT data set!