

Daily Validation of SCATSAT-1 L2B Winds (www.mosdac.gov.in)

Date : 04MAR2019

This automated validation is based on comparison with ASCAT & NCMRWF data

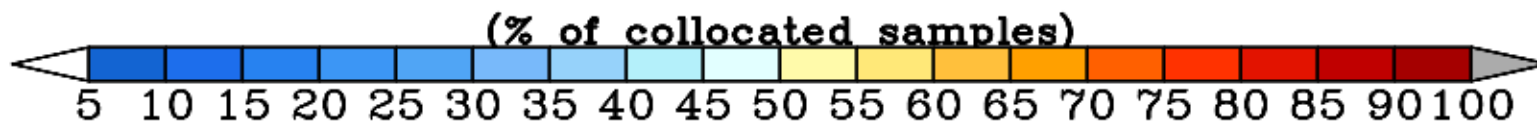
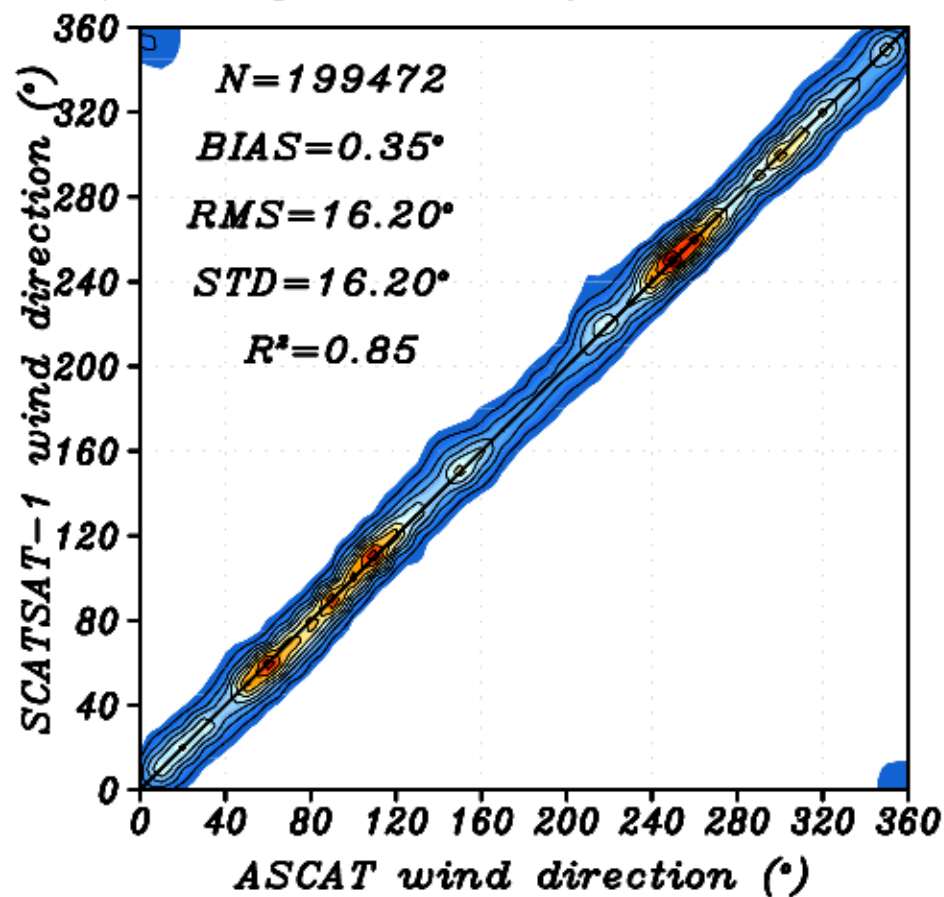
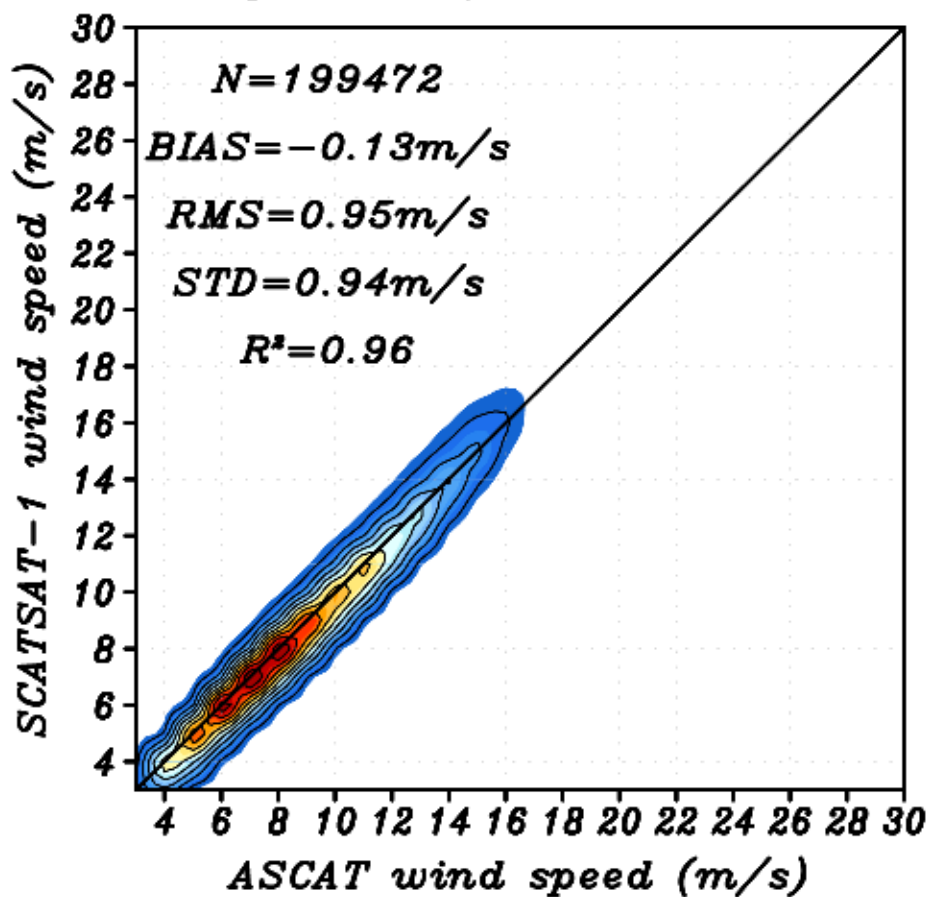
Originating Unit : GRD/AOSG/EPSSA/SAC/ISRO

COMPARISON WITH ASCAT

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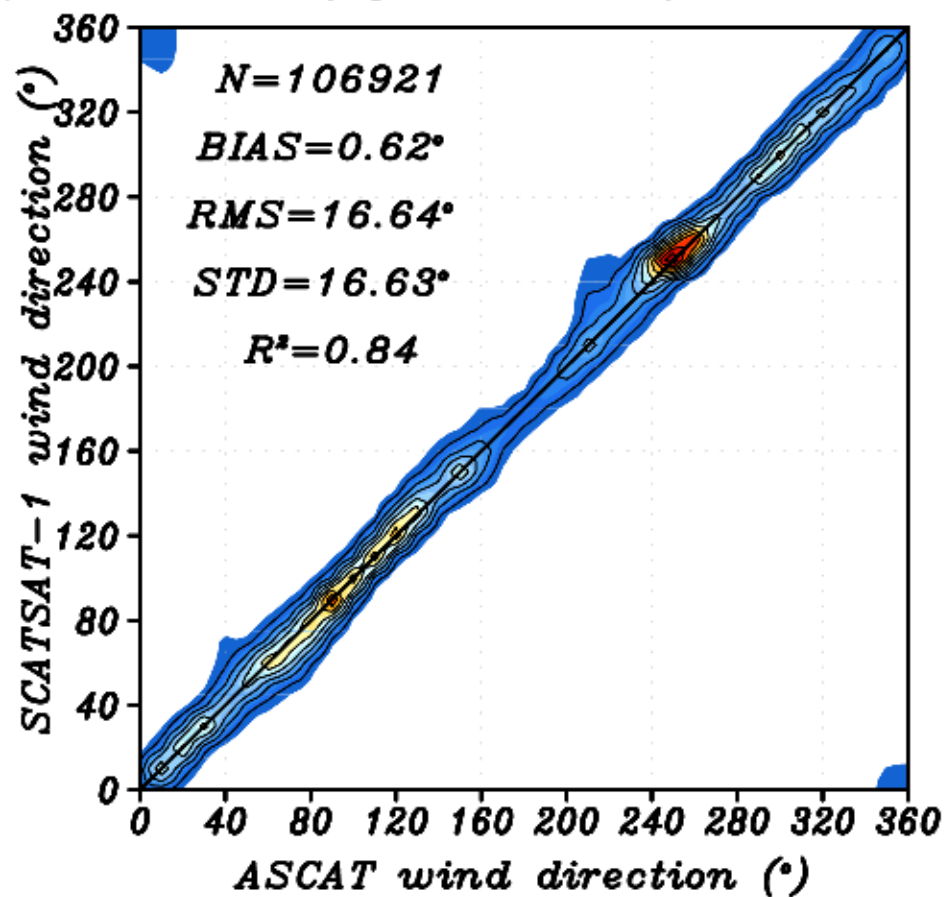
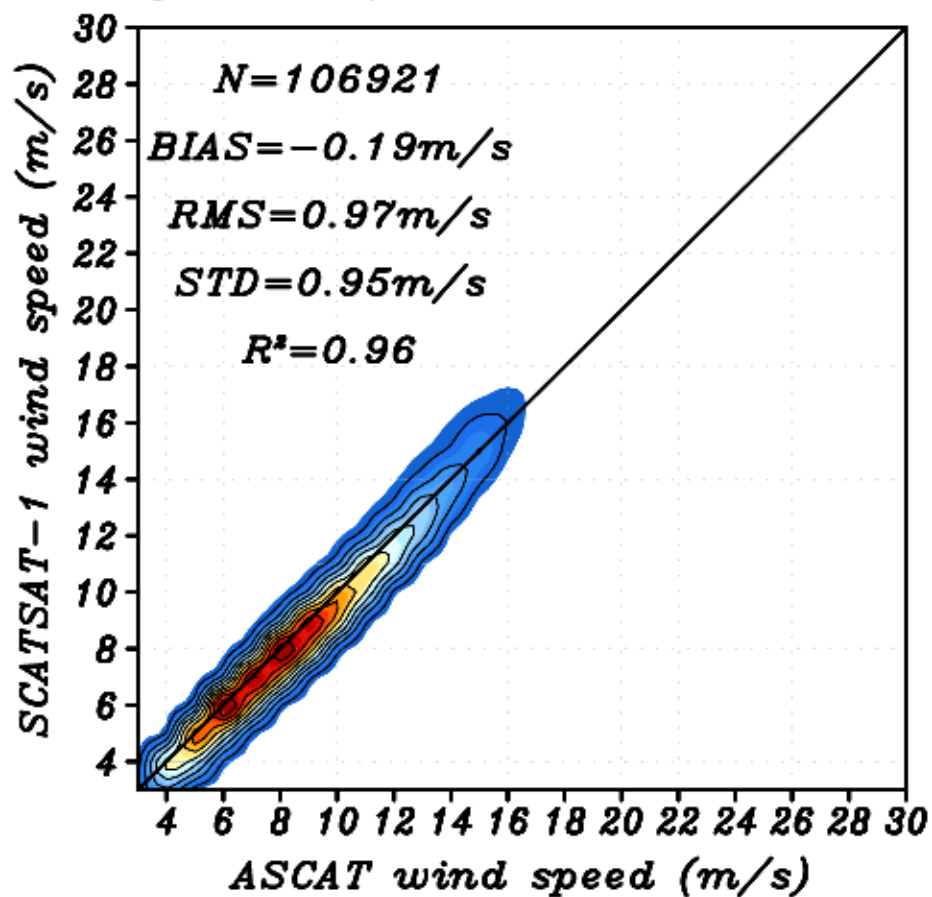
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Comparison of SCATSAT-1 and ASCAT for all passes over global oceans



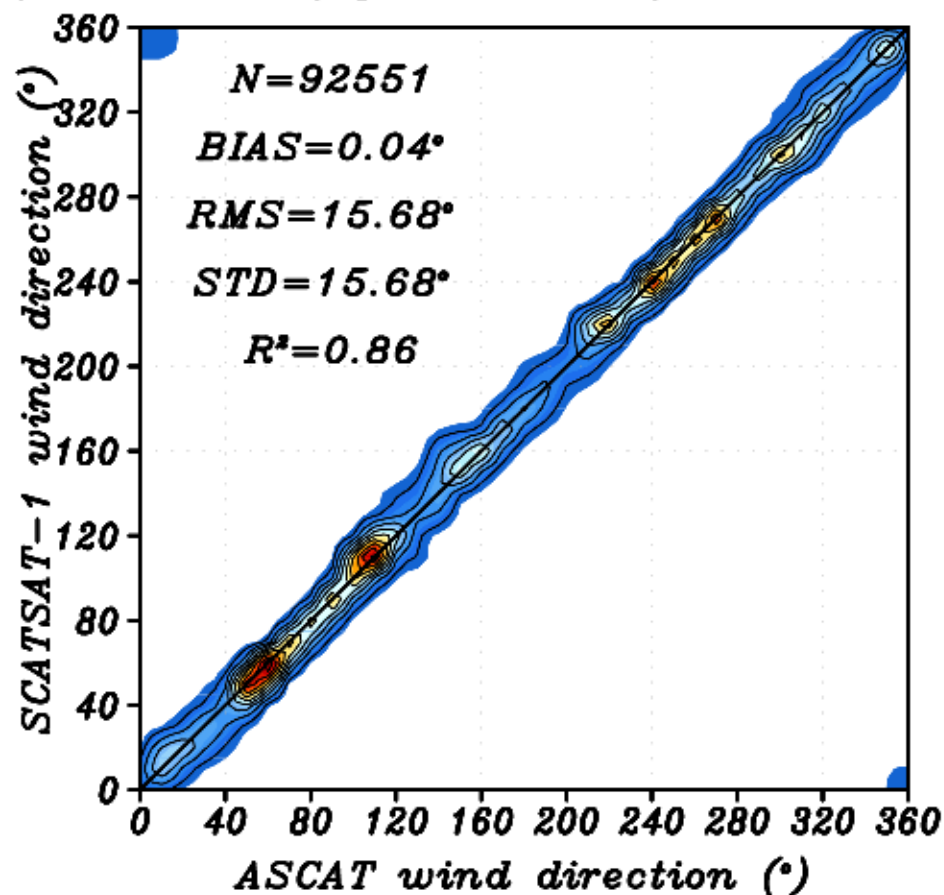
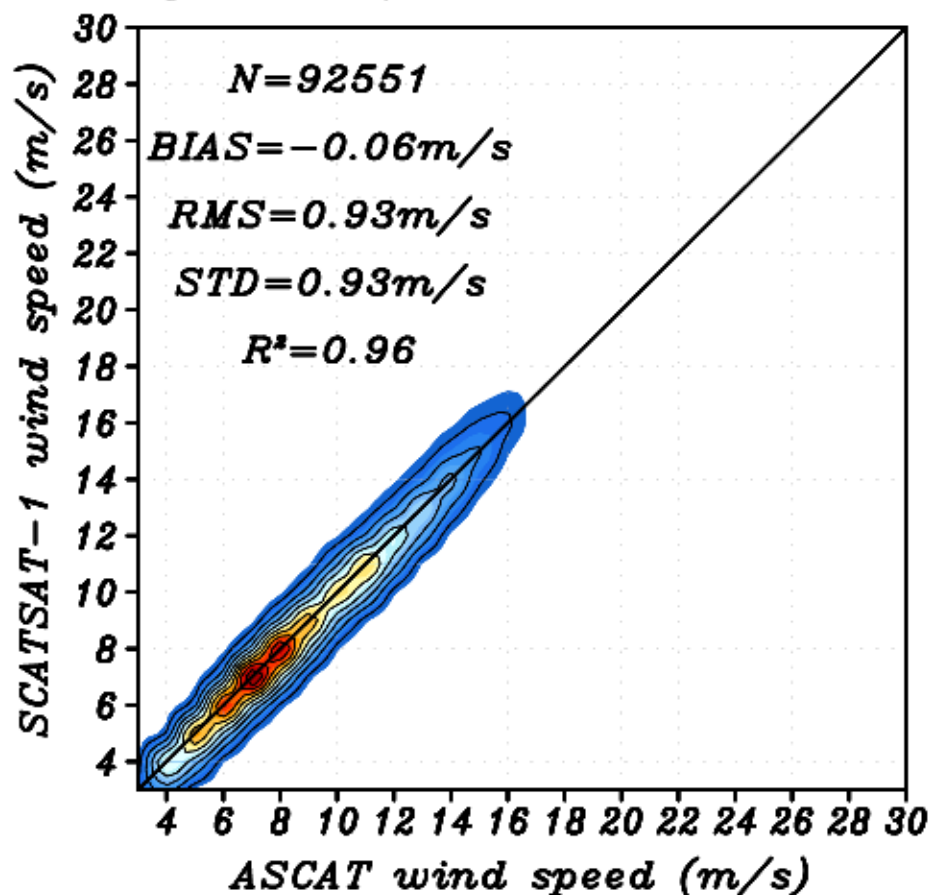
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Comparison of SCATSAT-1 and ASCAT for Descending passes over global oceans



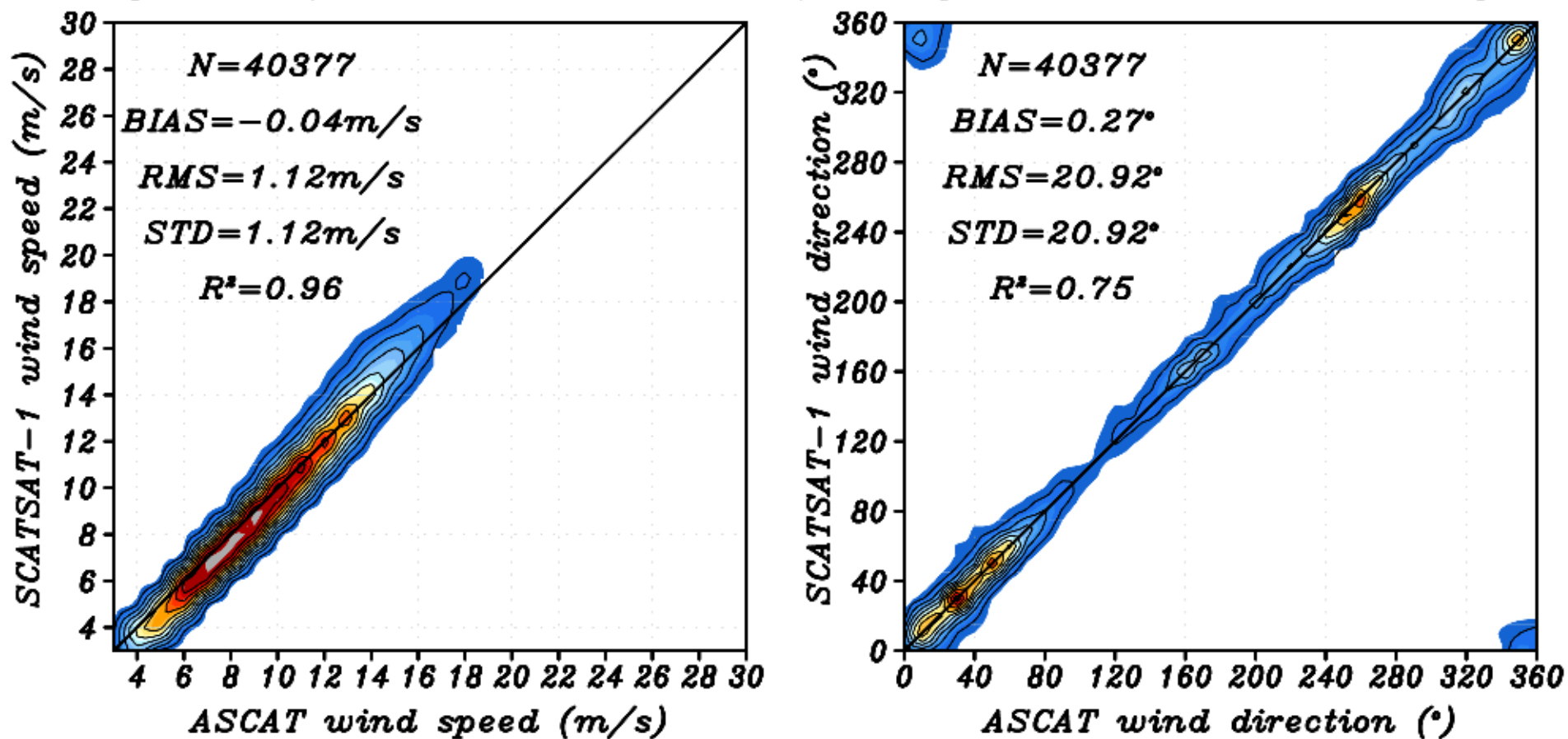
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Comparison of SCATSAT-1 and ASCAT for Ascending passes over global oceans



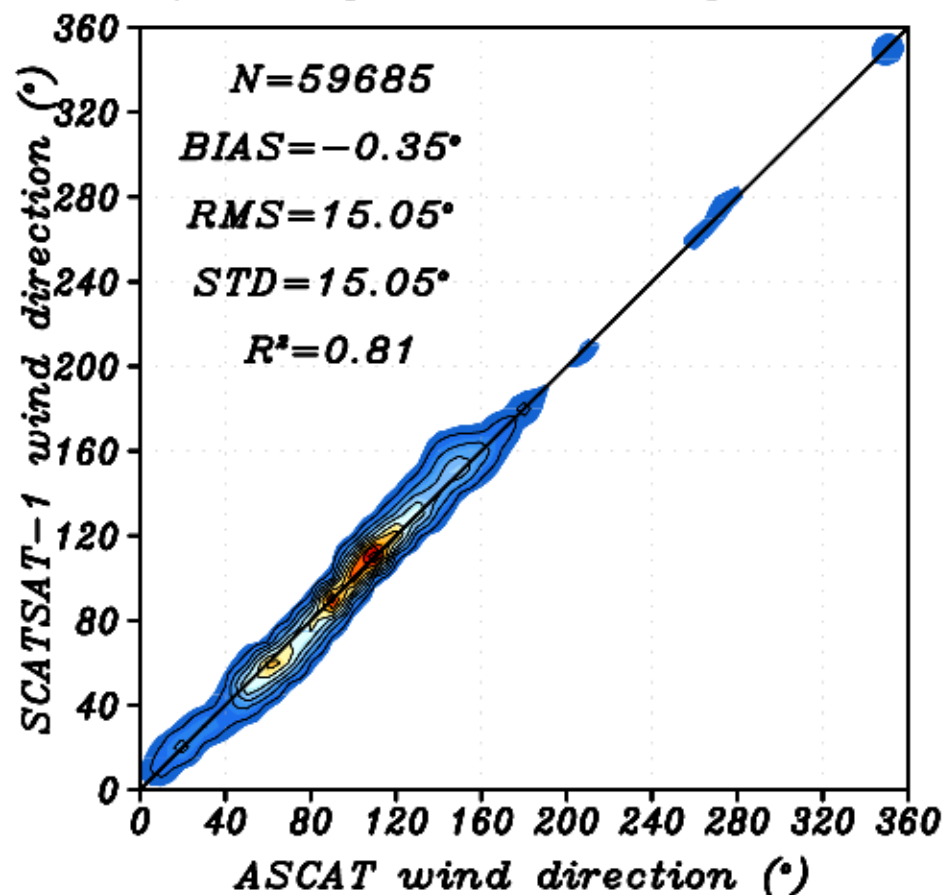
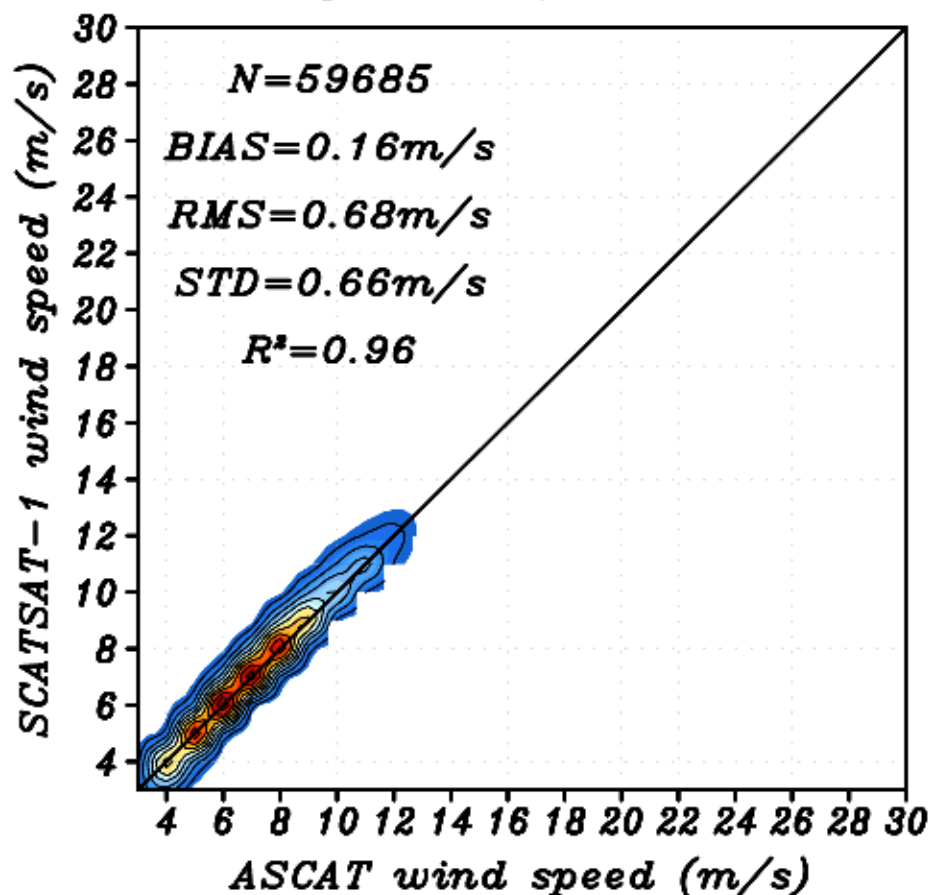
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Comparison of SCATSAT-1 and ASCAT for all passes over Northern Hemisphere



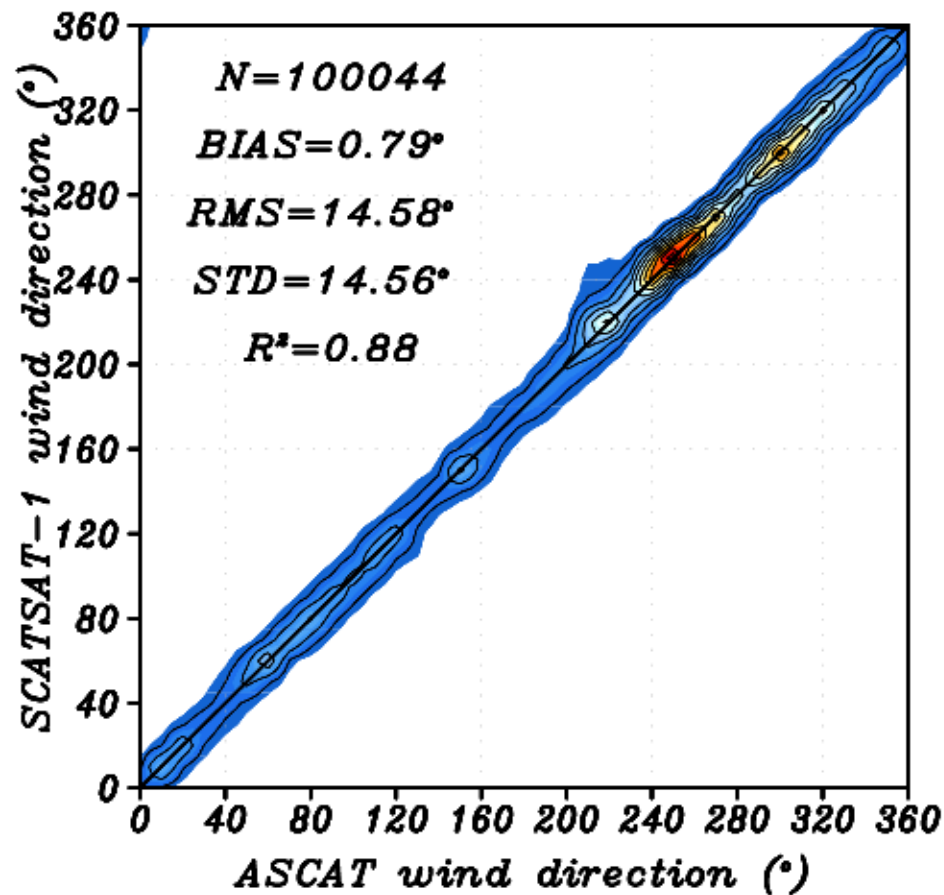
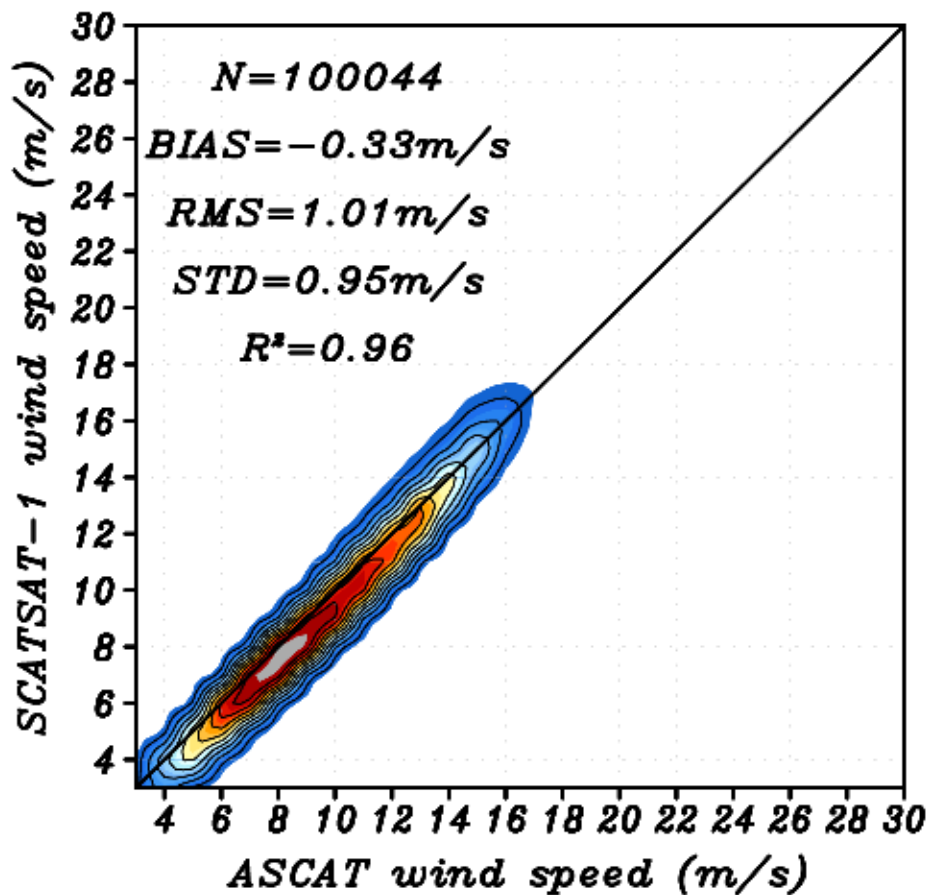
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Comparison of SCATSAT-1 and ASCAT for all passes over Tropics



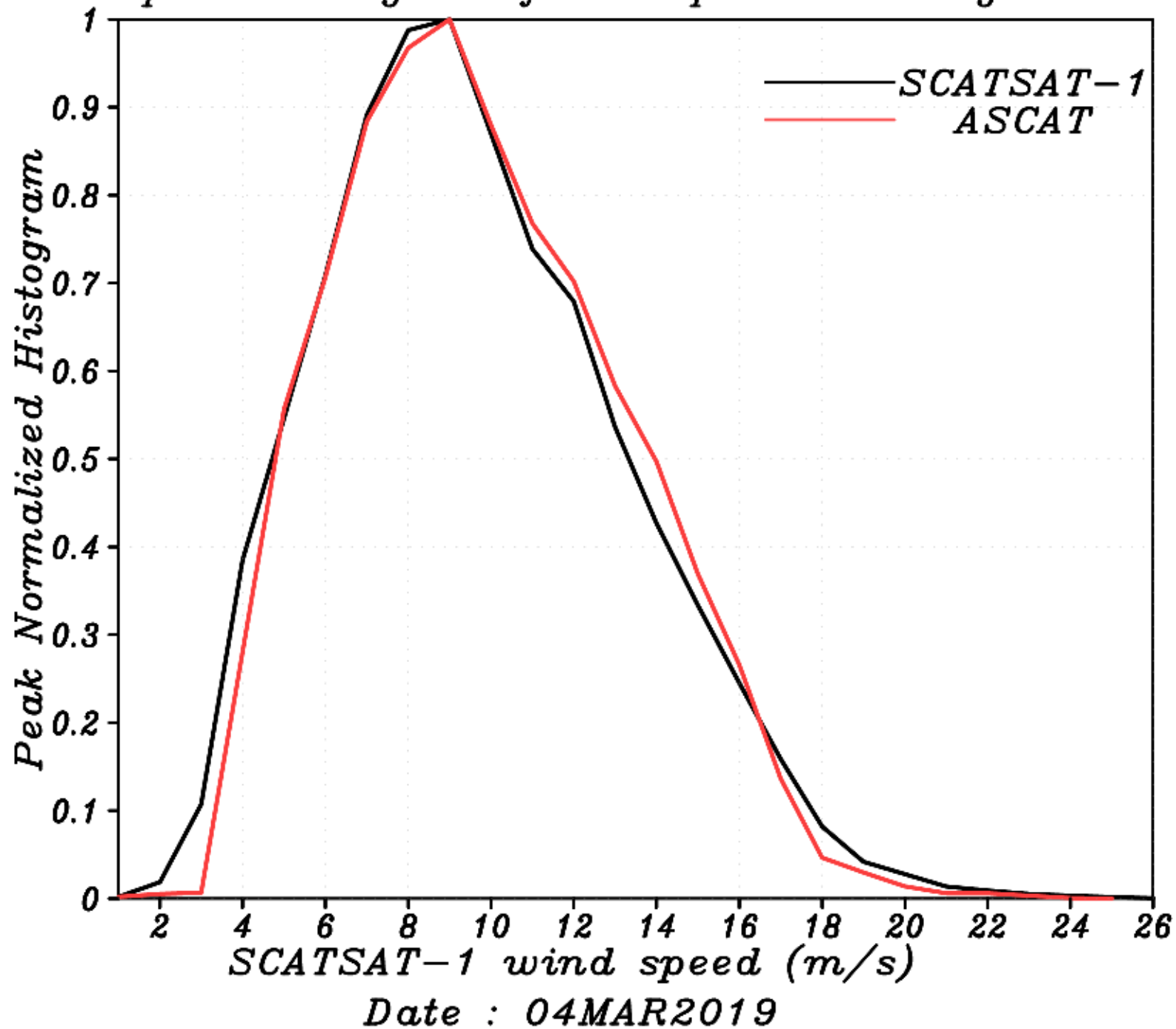
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Comparison of SCATSAT-1 and ASCAT for all passes over Southern Hemisphere



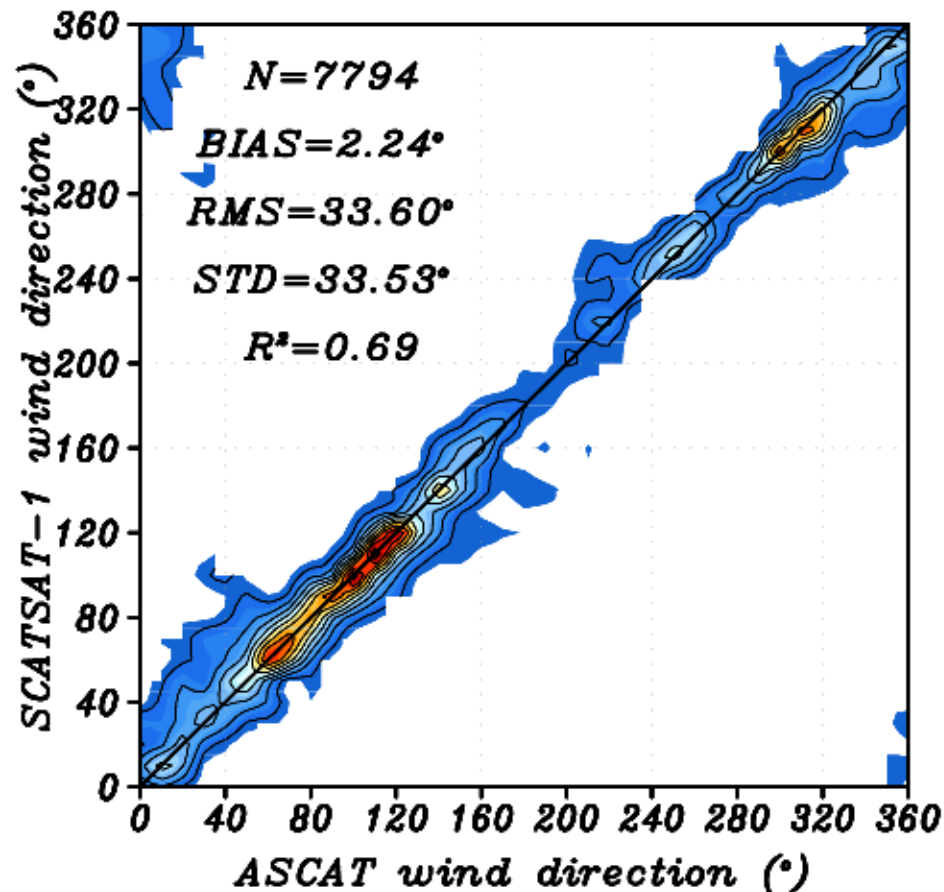
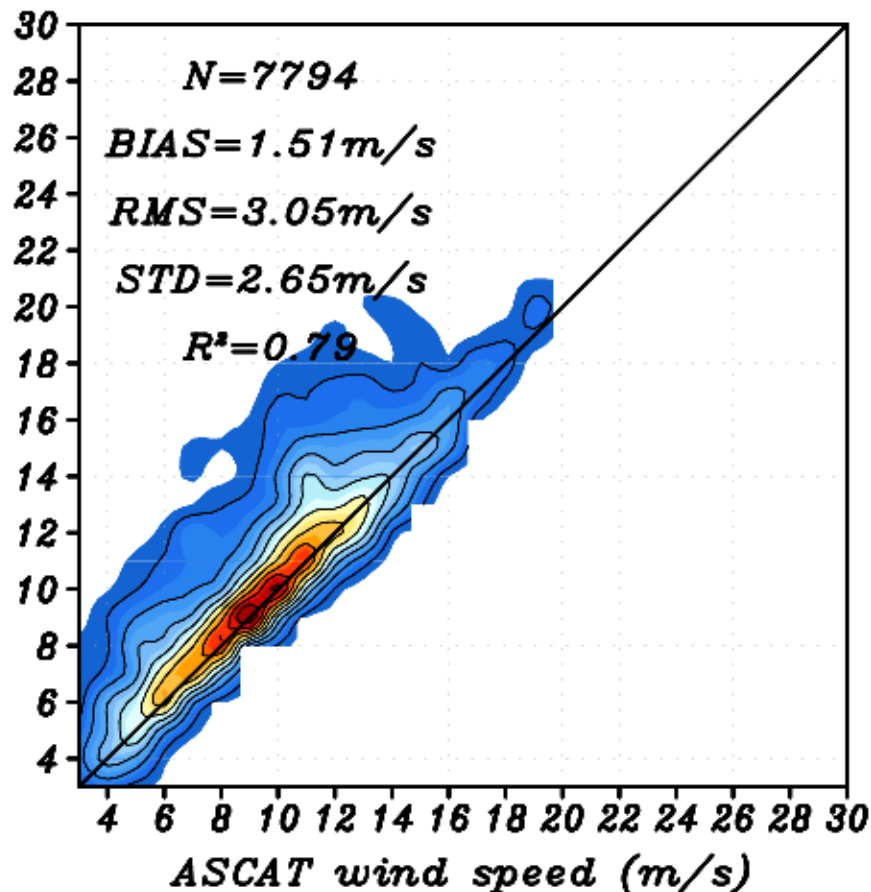
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Wind speed Histogram for all passes over global oceans



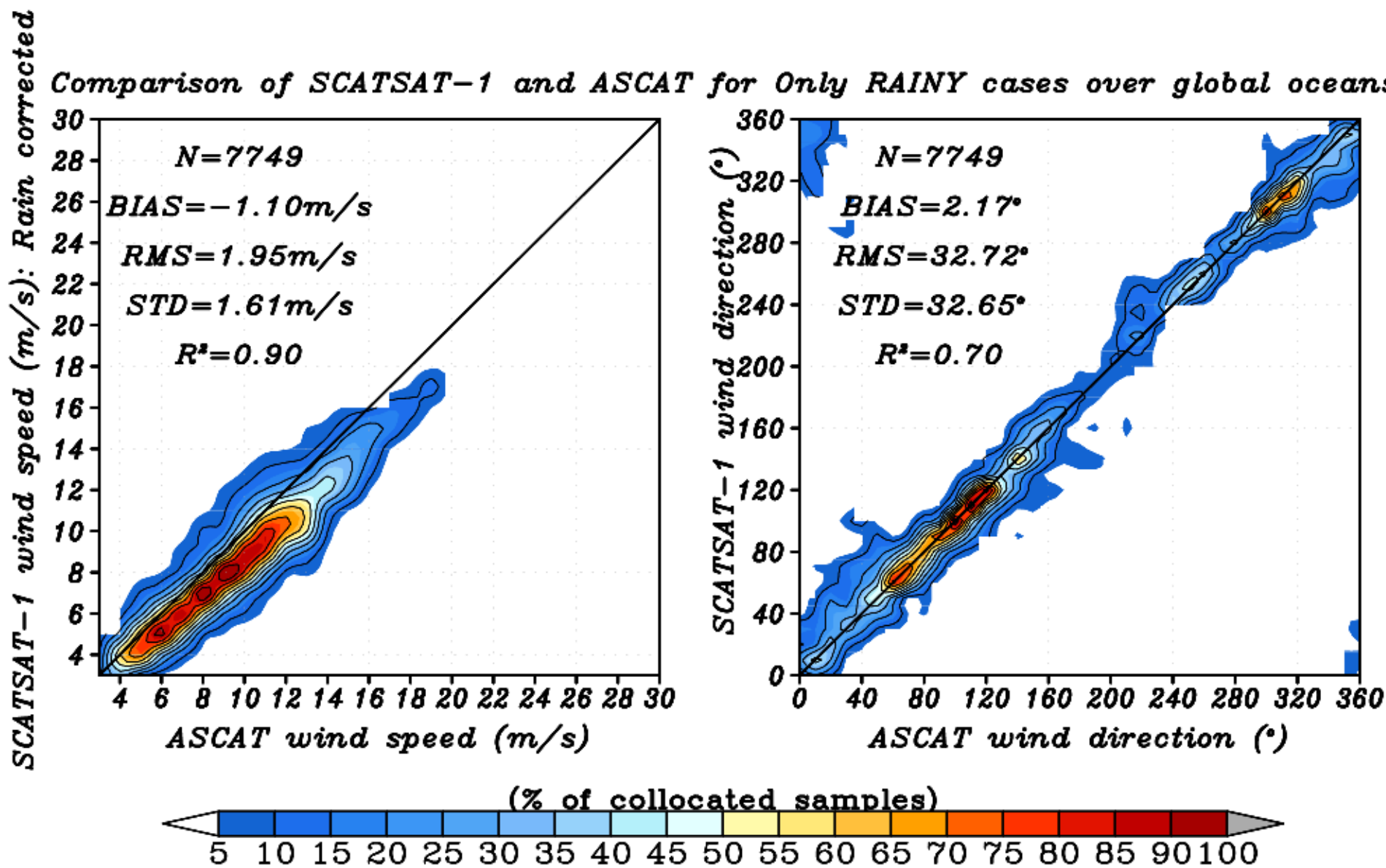
SCATSAT-1 wind speed (m/s): without Rain correctio

Comparison of SCATSAT-1 and ASCAT for Only RAINY cases over global oceans



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Comparison of SCATSAT-1 and ASCAT for Only RAINY cases over global oceans



$N=7749$

$BIAS=-1.10\text{m/s}$

$RMS=1.95\text{m/s}$

$STD=1.61\text{m/s}$

$R^2=0.90$

$N=7749$

$BIAS=2.17^\circ$

$RMS=32.72^\circ$

$STD=32.65^\circ$

$R^2=0.70$

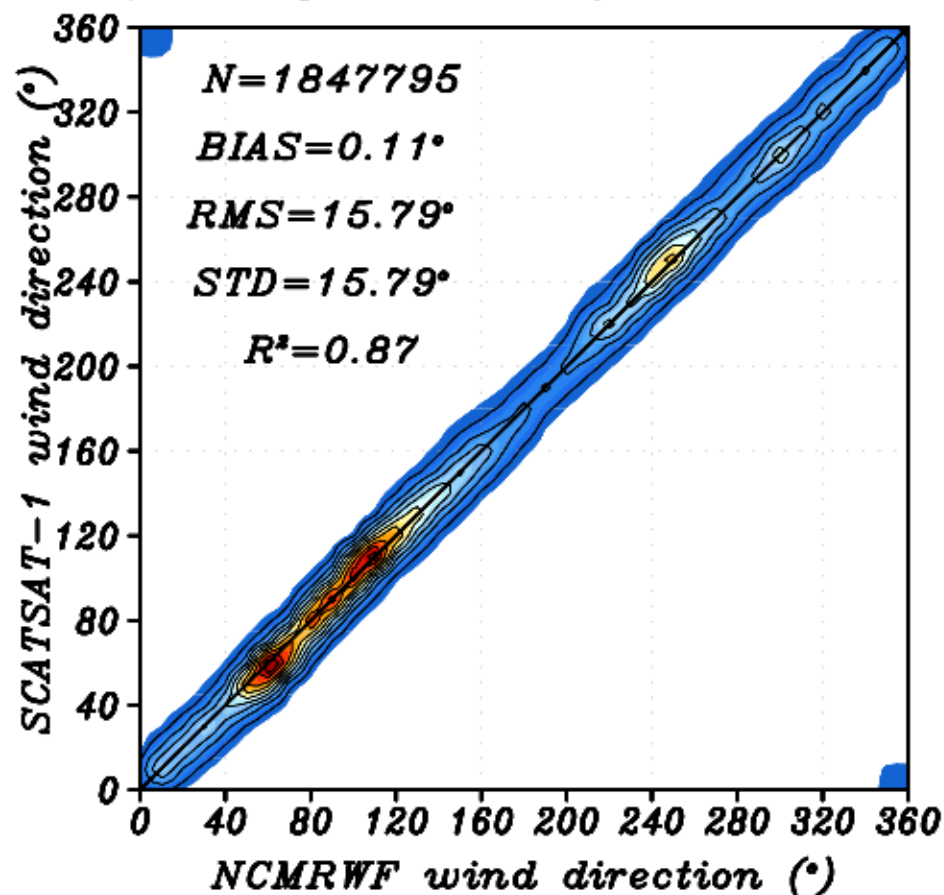
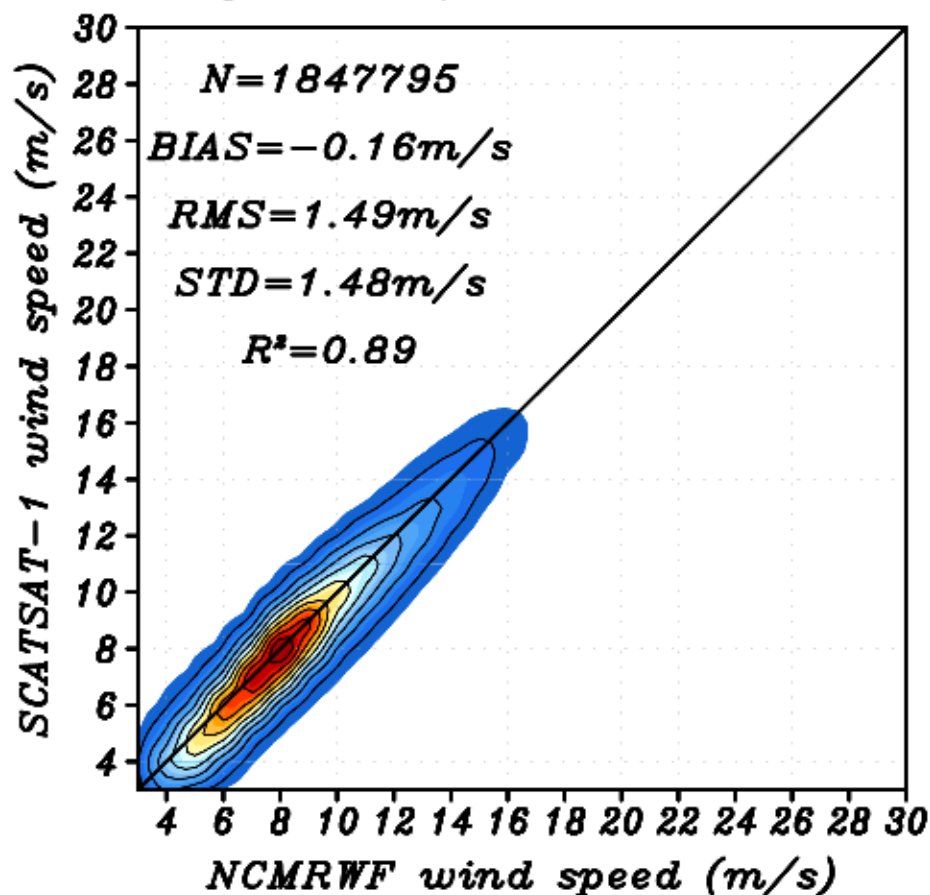
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COMPARISON WITH NWP(NCMRWF)

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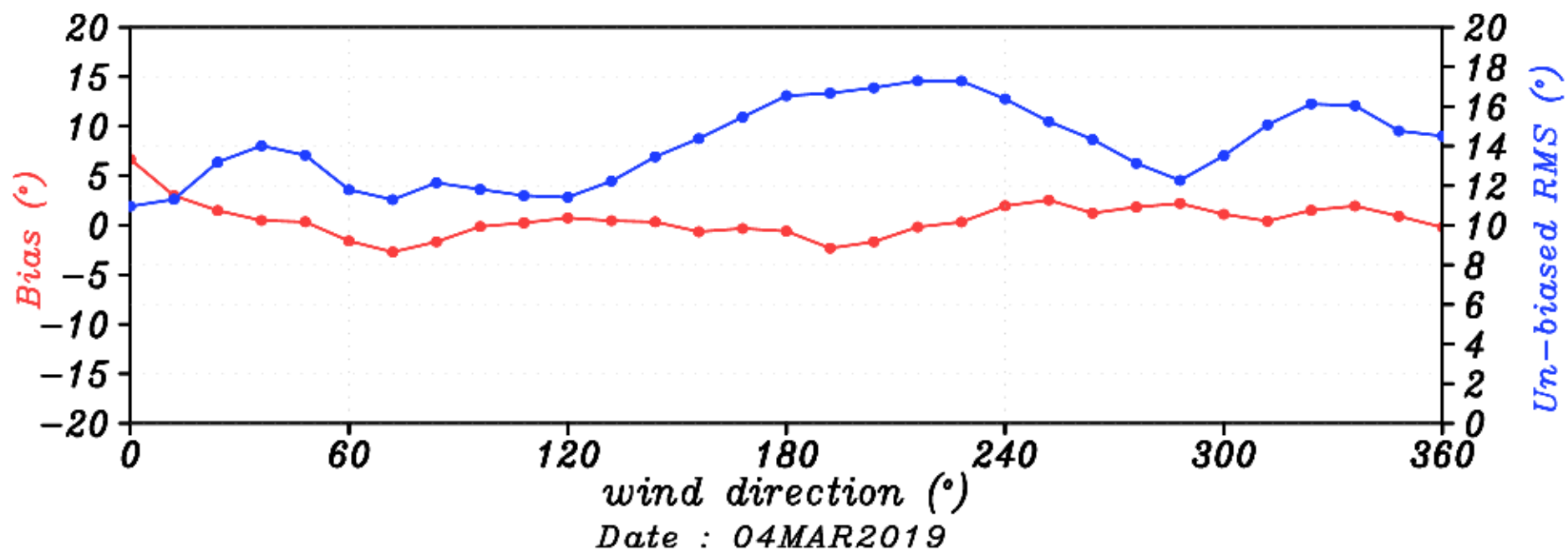
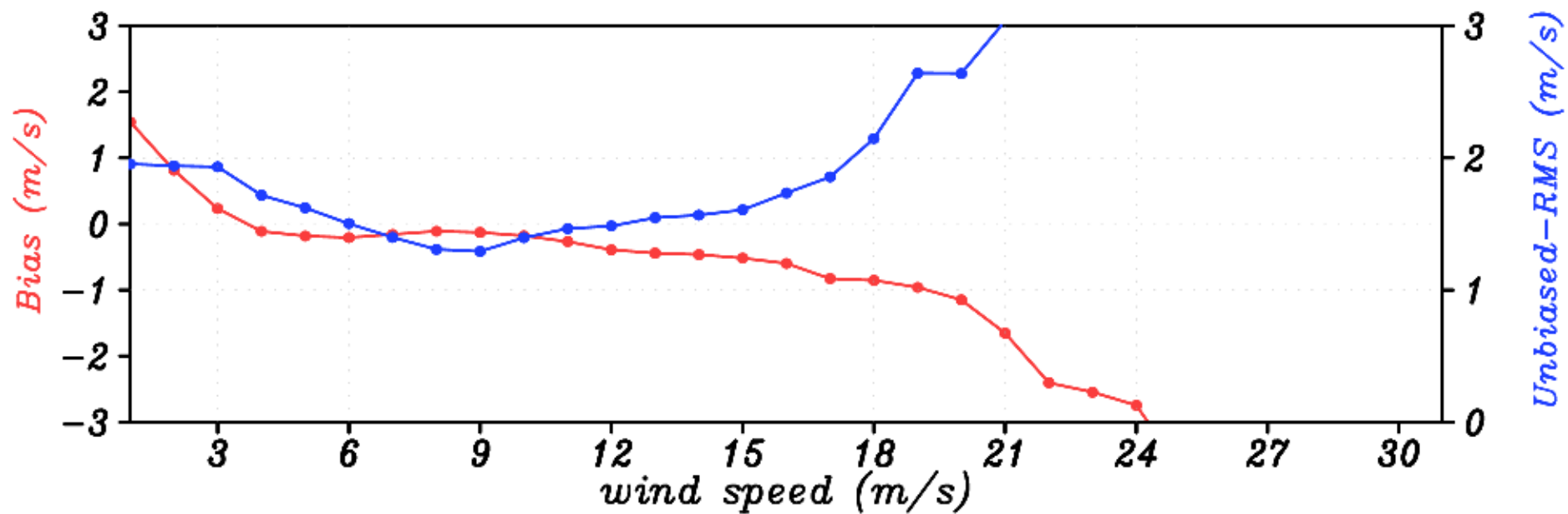
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Comparison of SCATSAT-1 and NCMRWF for all passes over global oceans



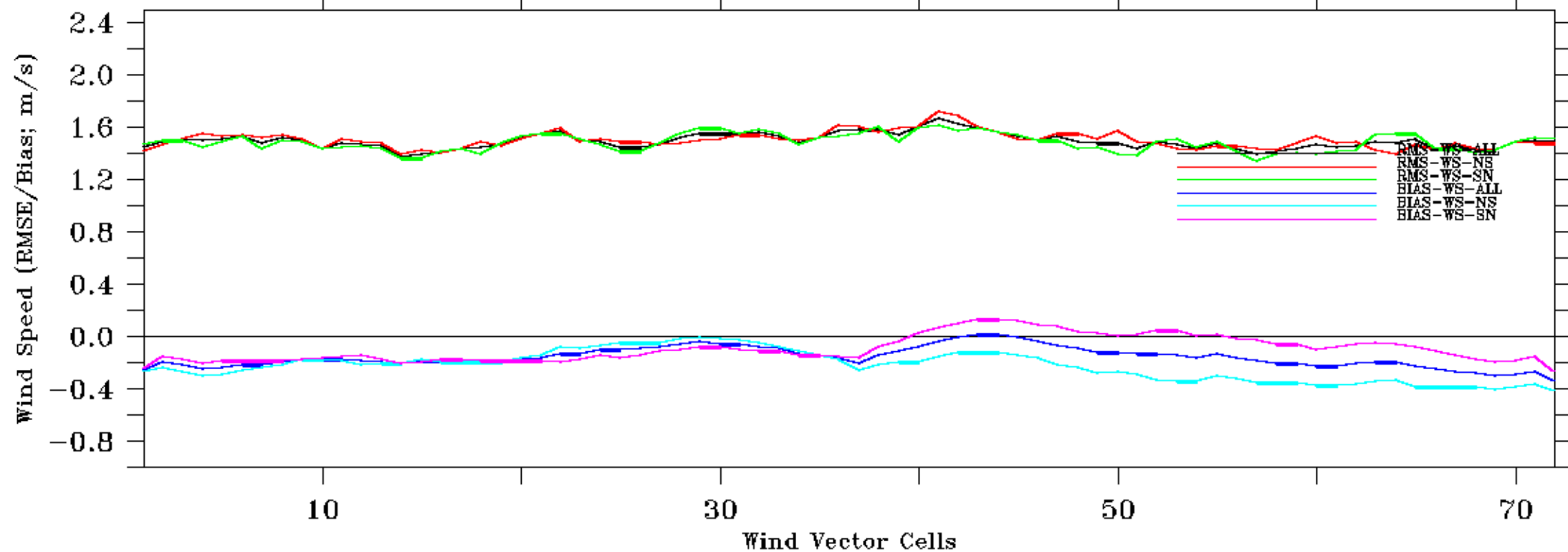
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Bin wise comparison (SCATSAT-1/NCMRWF) for all passes over global oceans
Speed Bin=1m/s; Direction Bin=10 deg



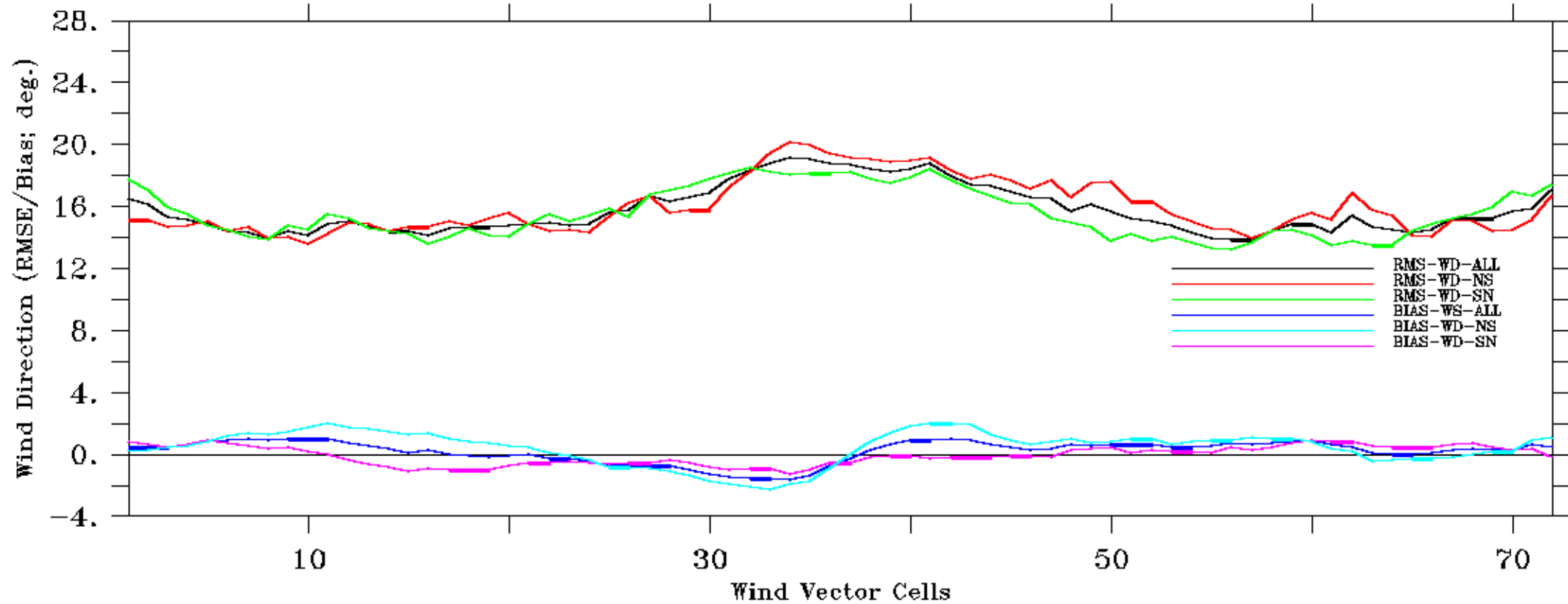
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Comparison of SCATSAT-1 and NCMRWF for all passes over global oceans



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