

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

Date : 28NOV2020

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

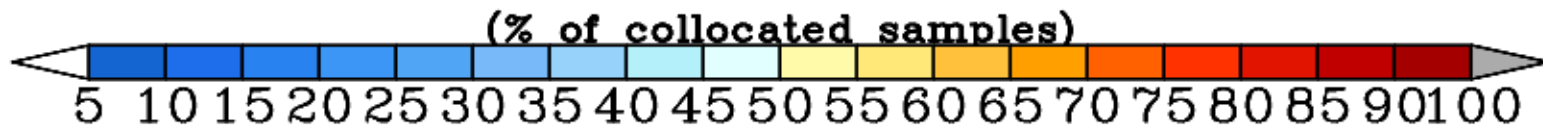
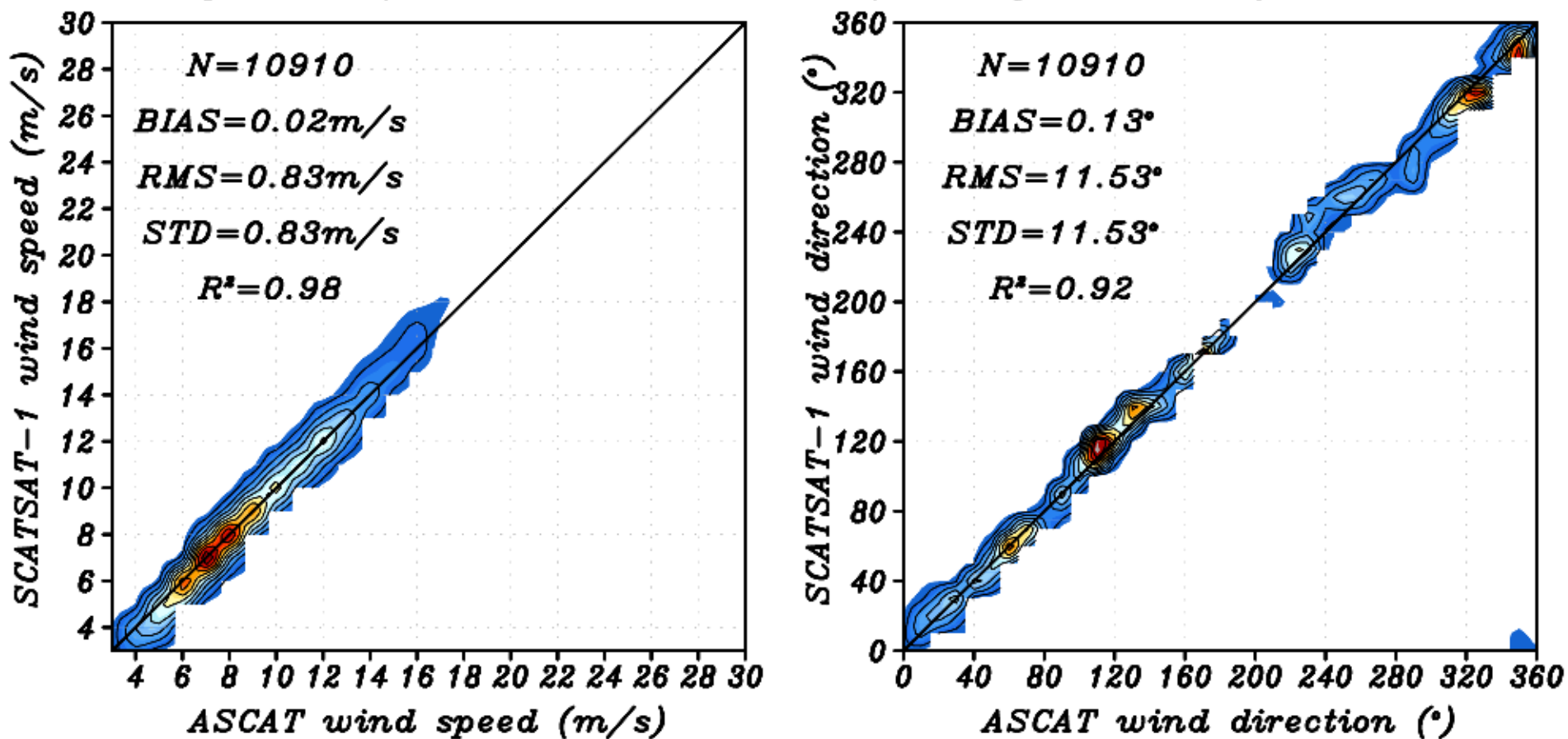
Originating Unit : GRD/AOSG/EPSSA/SAC/ISRO

COMPARISON WITH ASCAT

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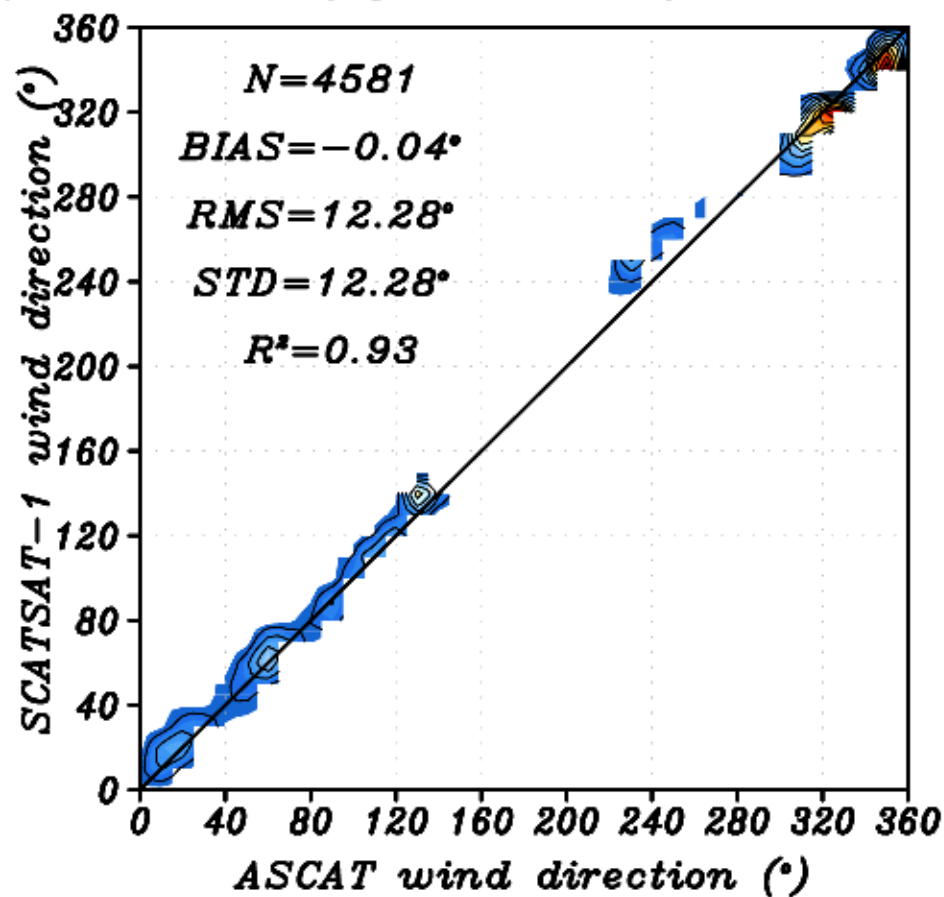
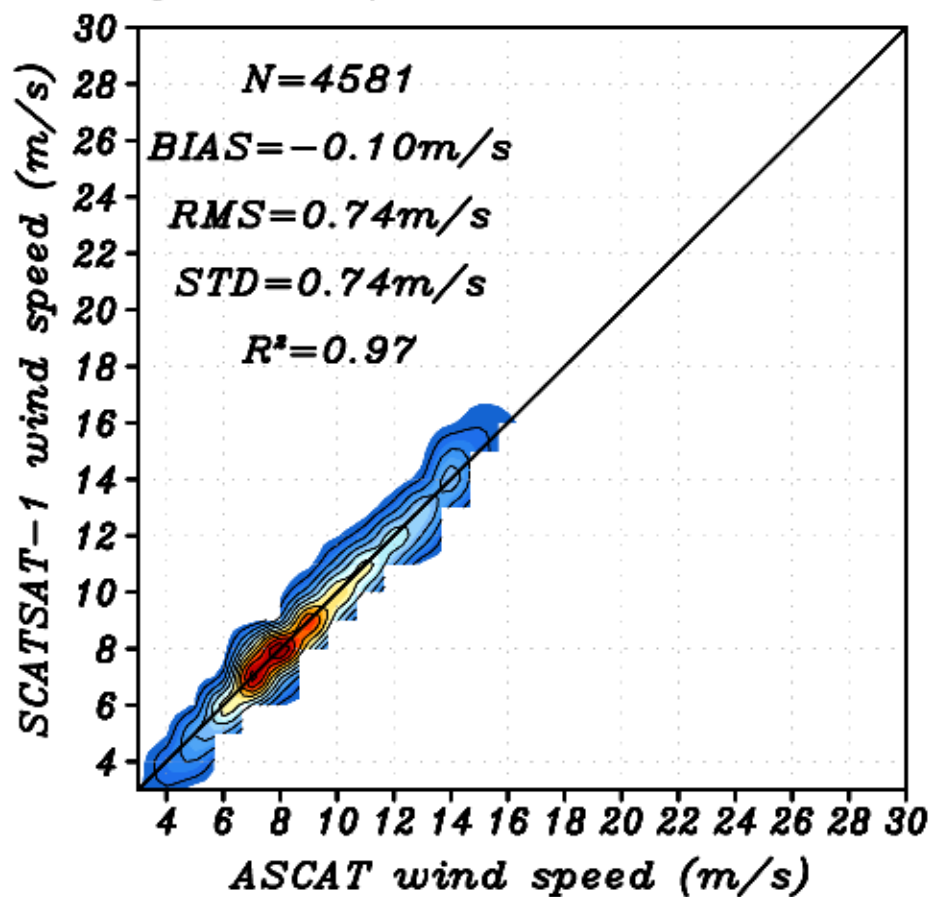
Collocation: delR = 0.25°; delT = 0.5 hr

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



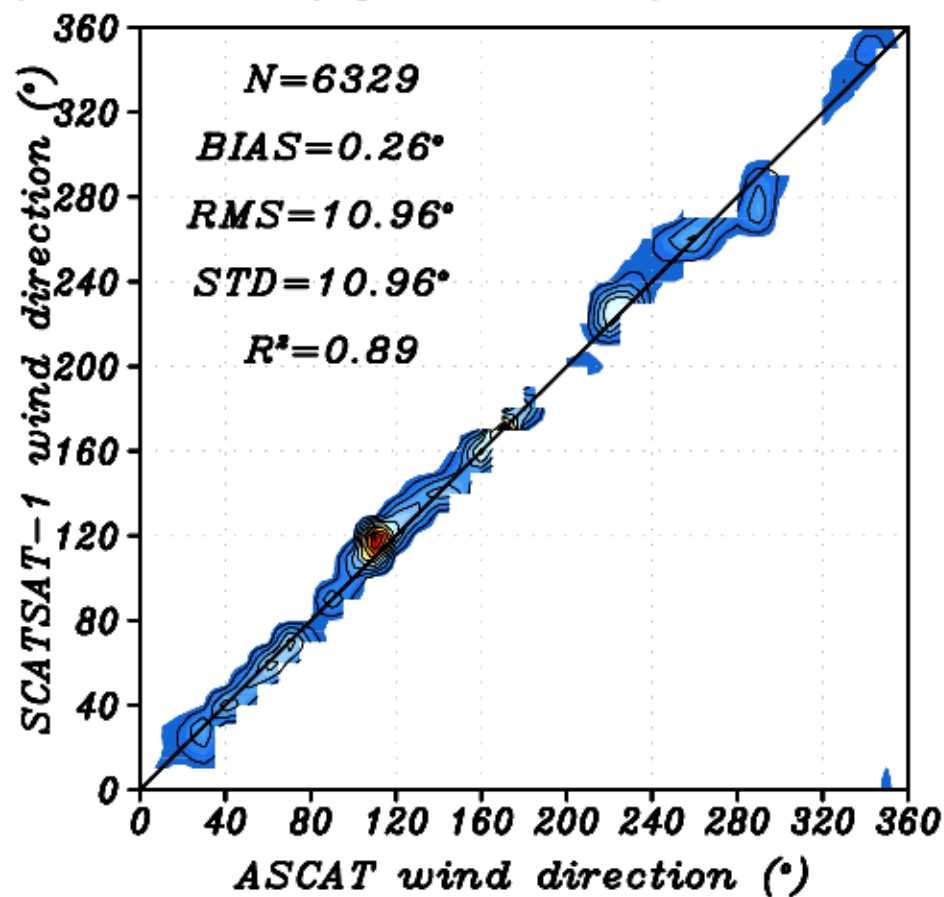
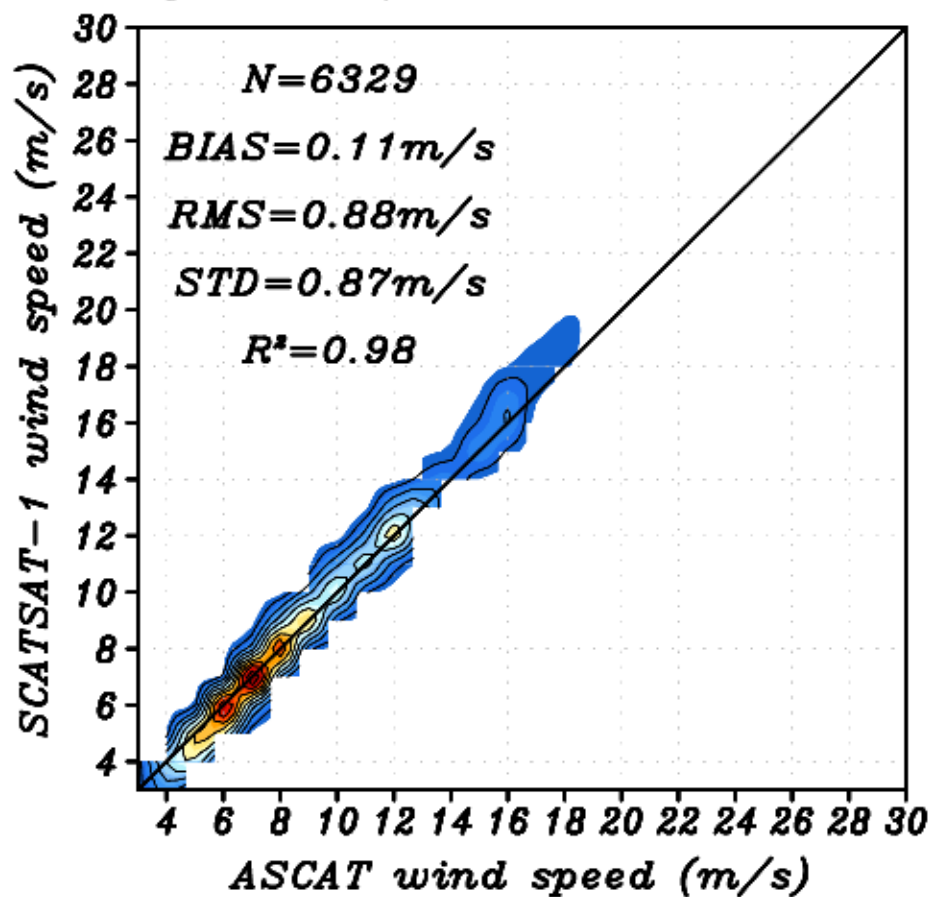
Date : 28NOV2020

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



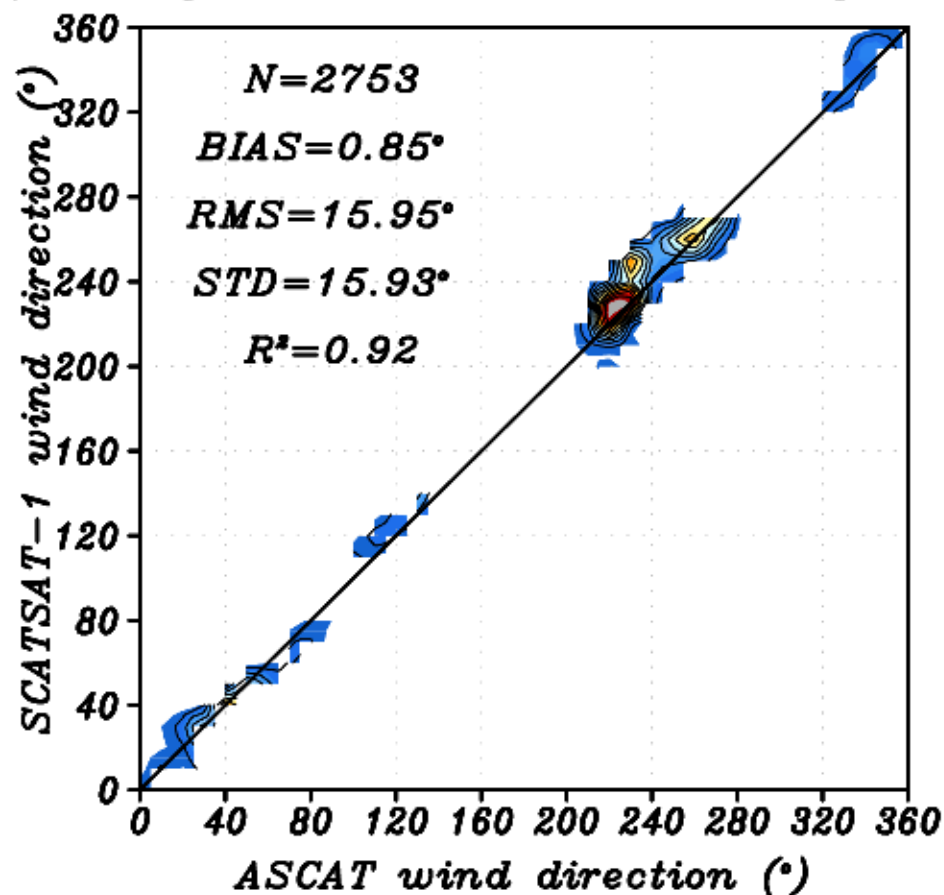
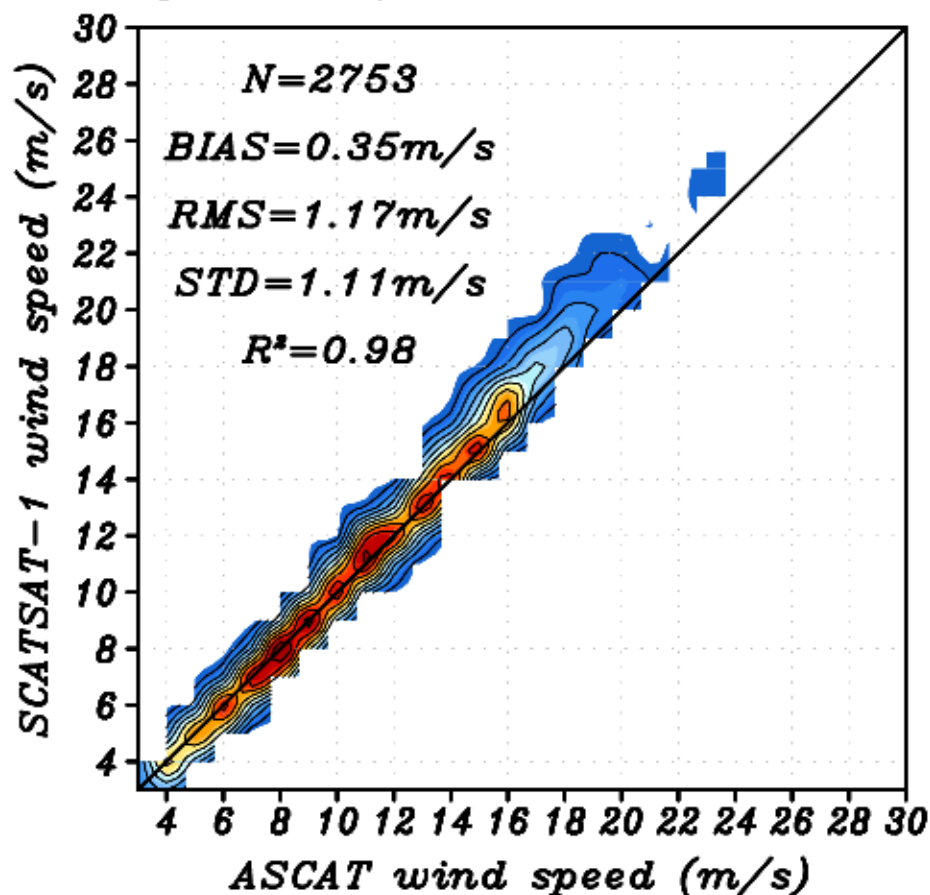
Date : 28NOV2020

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



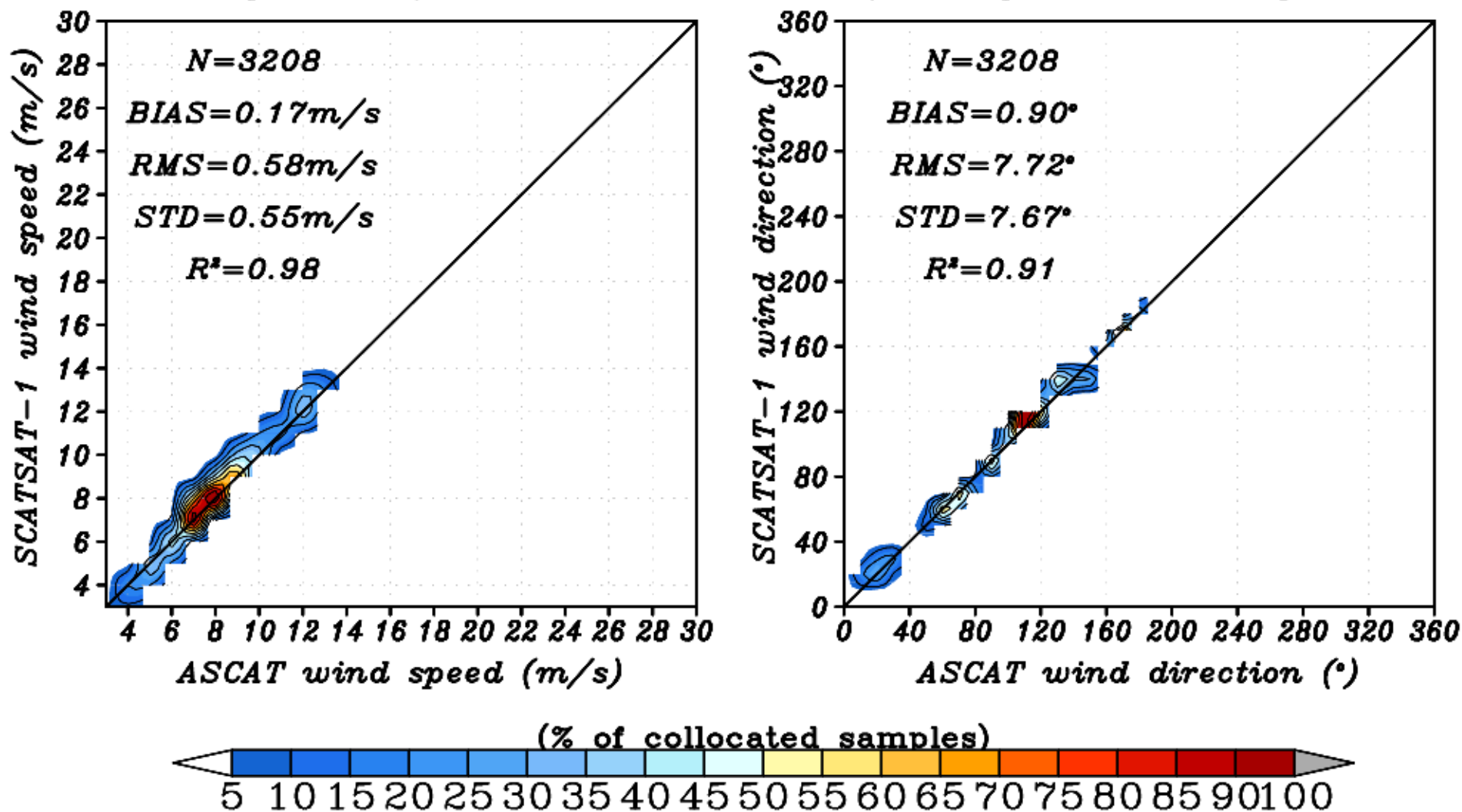
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Comparison of SCATSAT-1 and ASCAT for all passes over Northern Hemisphere



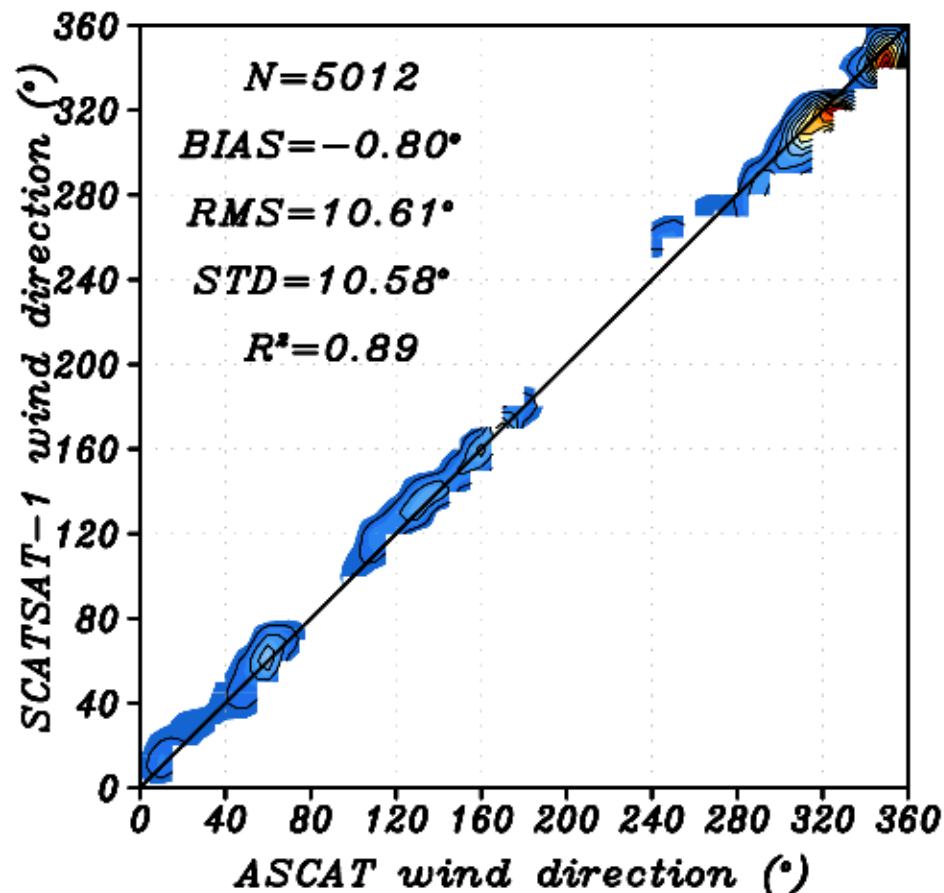
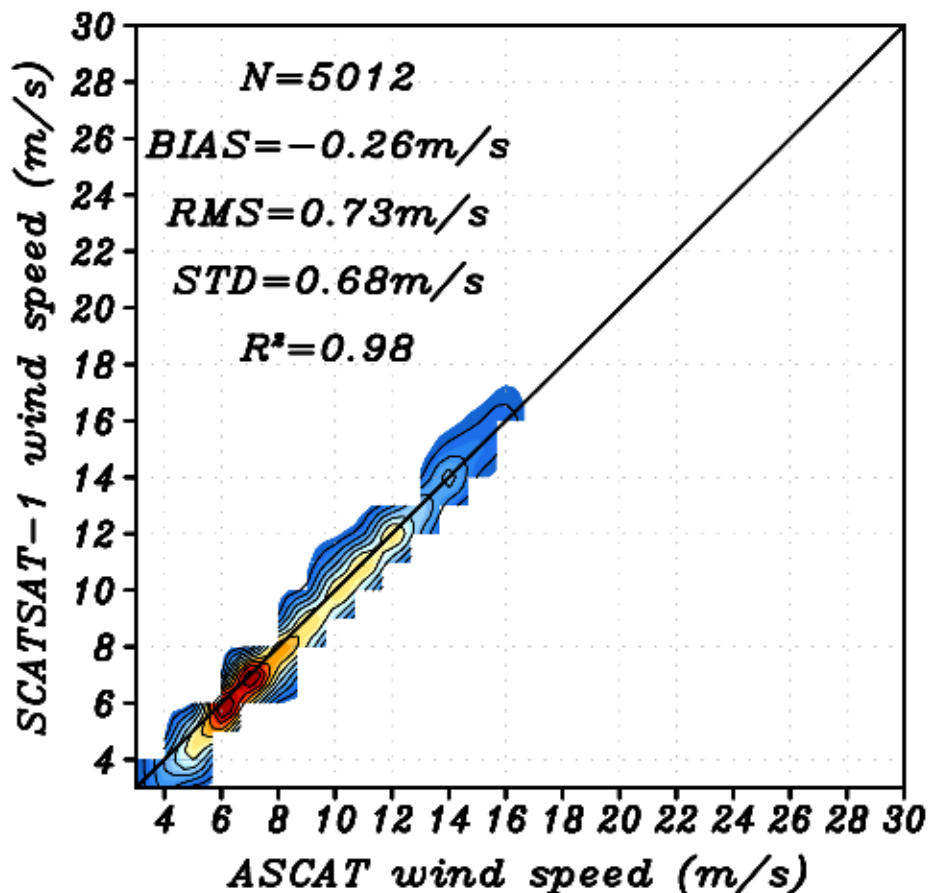
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Comparison of SCATSAT-1 and ASCAT for all passes over Tropics



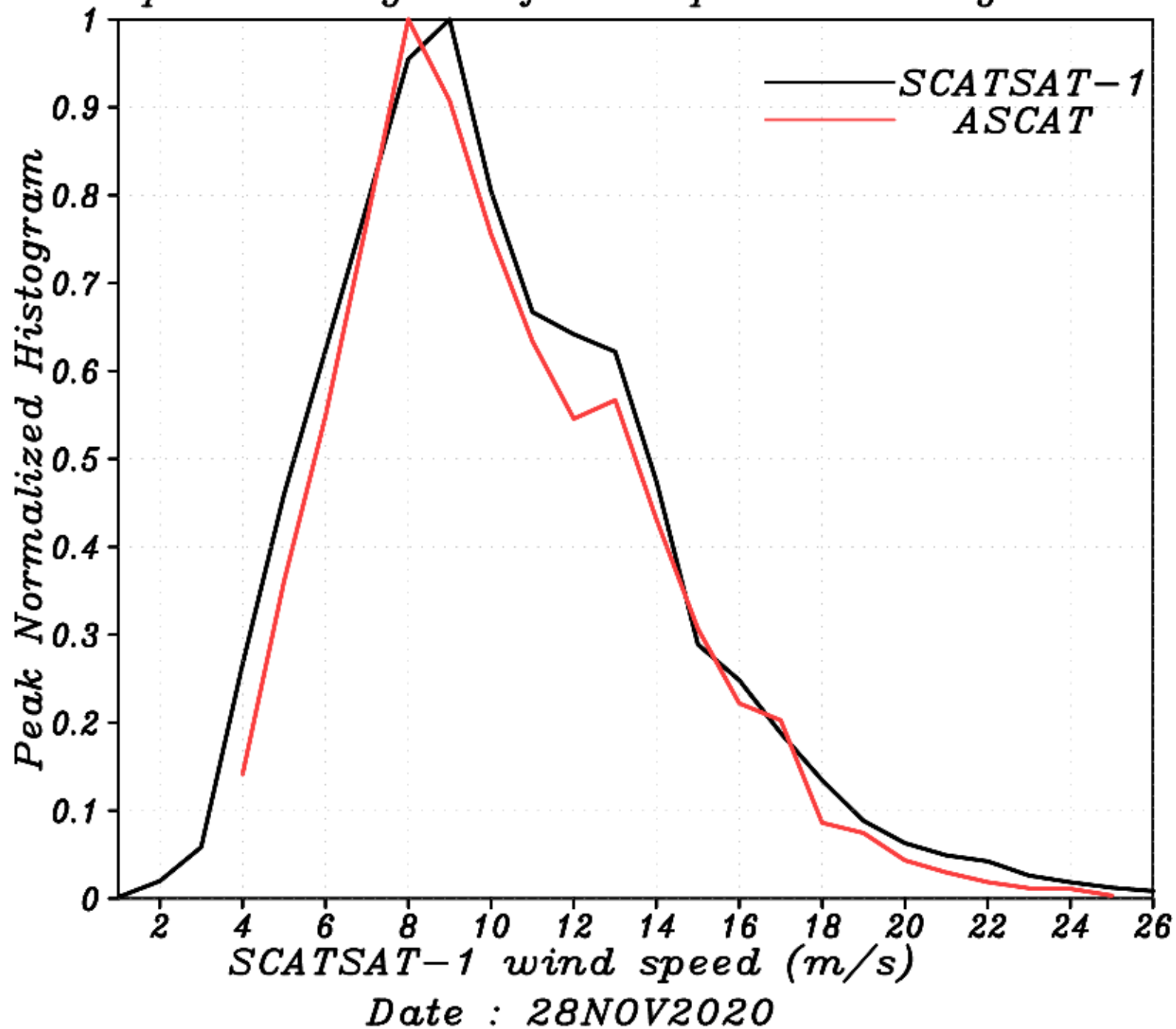
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Comparison of SCATSAT-1 and ASCAT for all passes over Southern Hemisphere



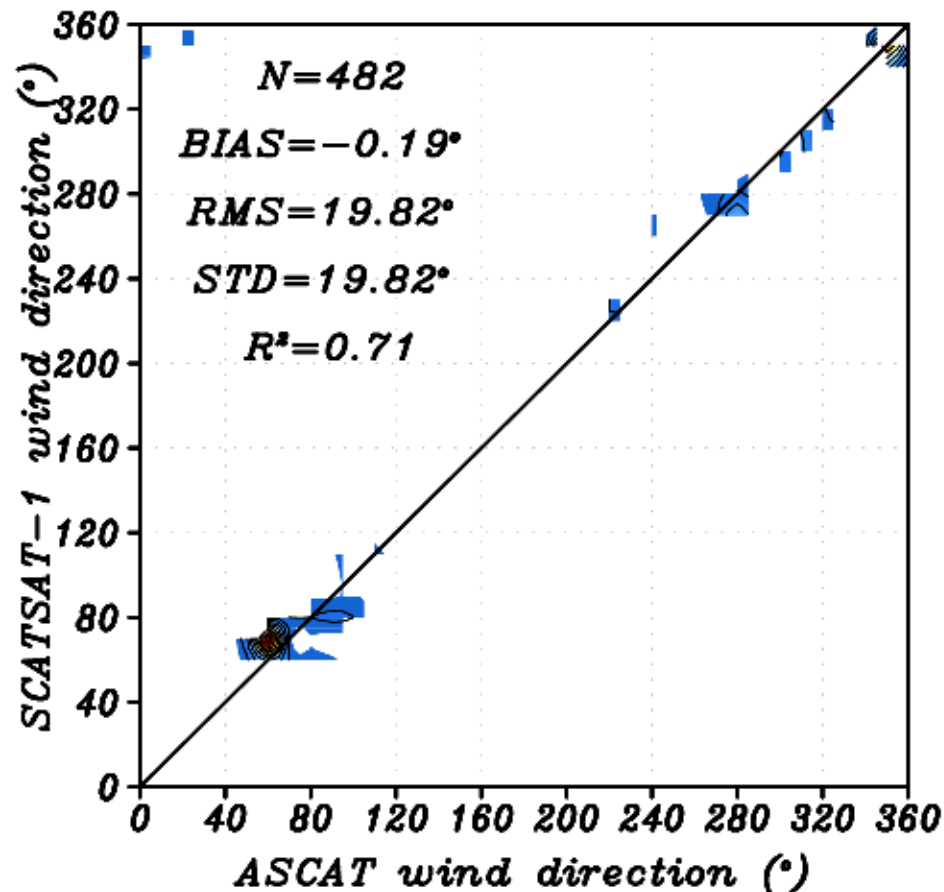
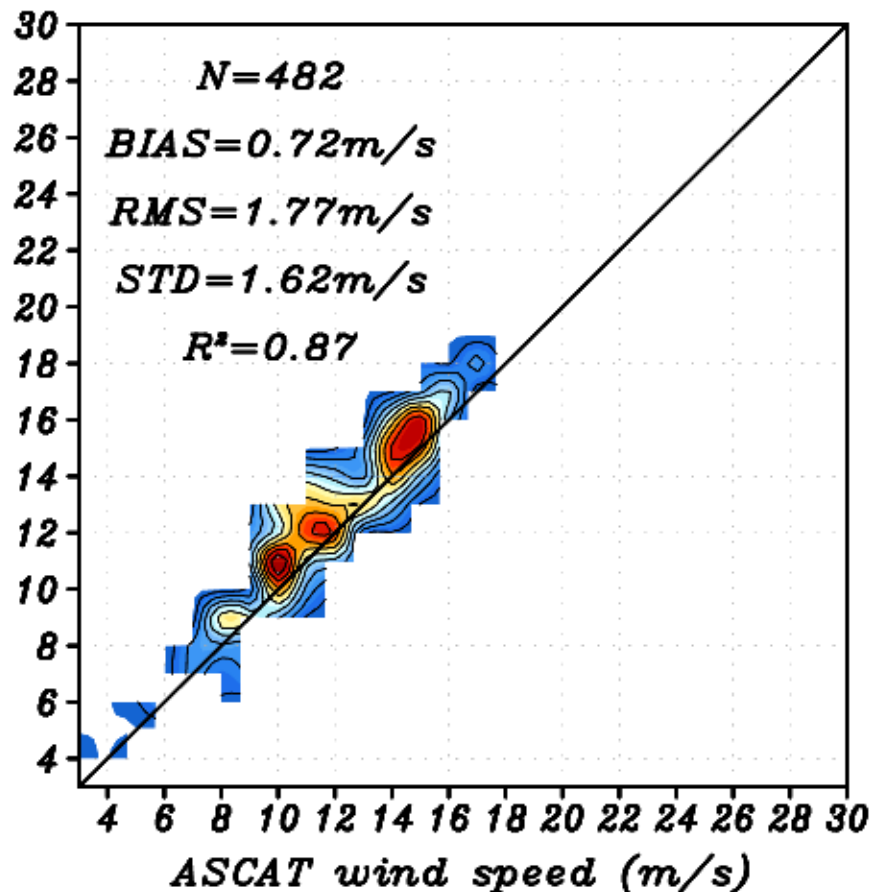
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Wind speed Histogram for all passes over global oceans



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

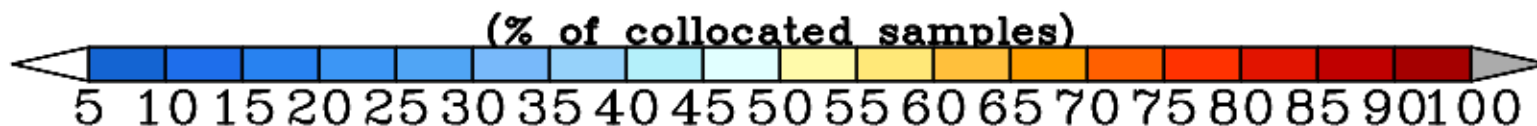
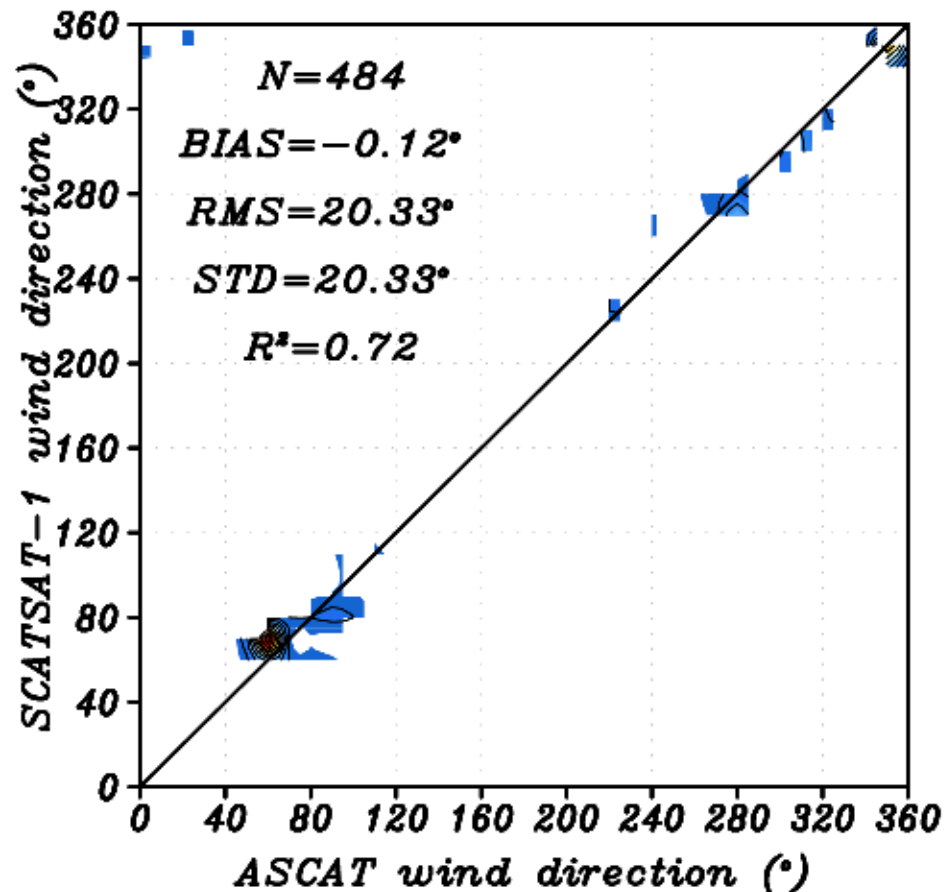
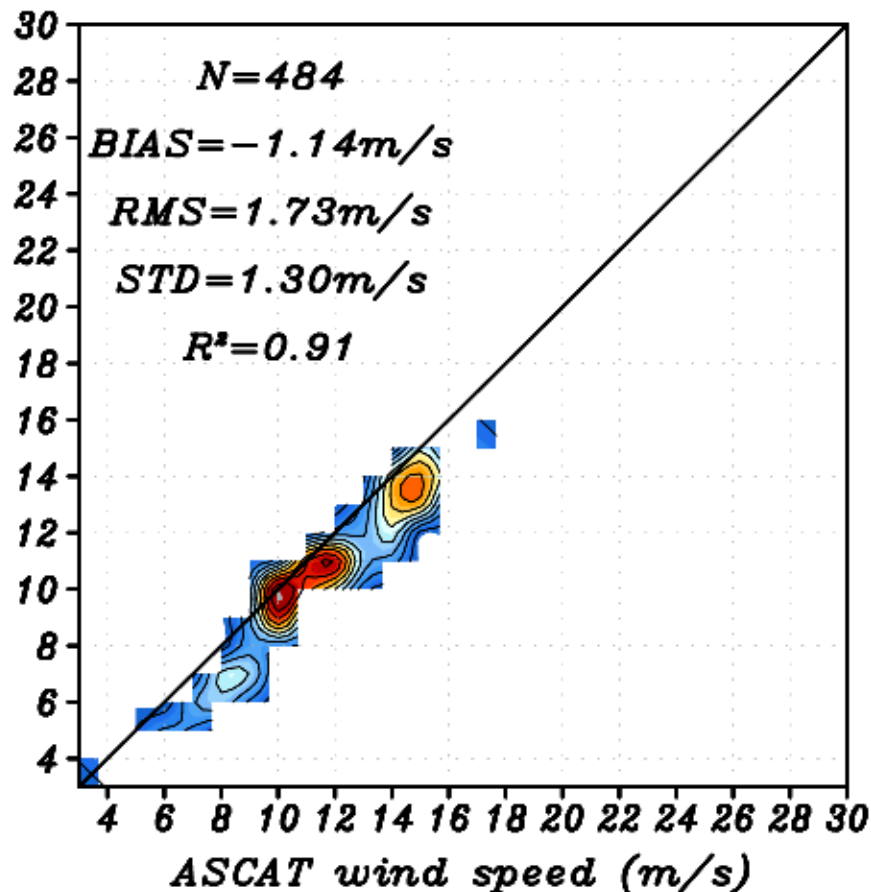
Comparison of SCATSAT-1 and ASCAT for Only RAINY cases over global oceans



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

SCATSAT-1 wind speed (m/s): Rain corrected



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COMPARISON WITH NWP(NCMRWF)

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Collocation: delR=0.25°; delT=+/-3 hr

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

Bias (m/s)

Bias (°)

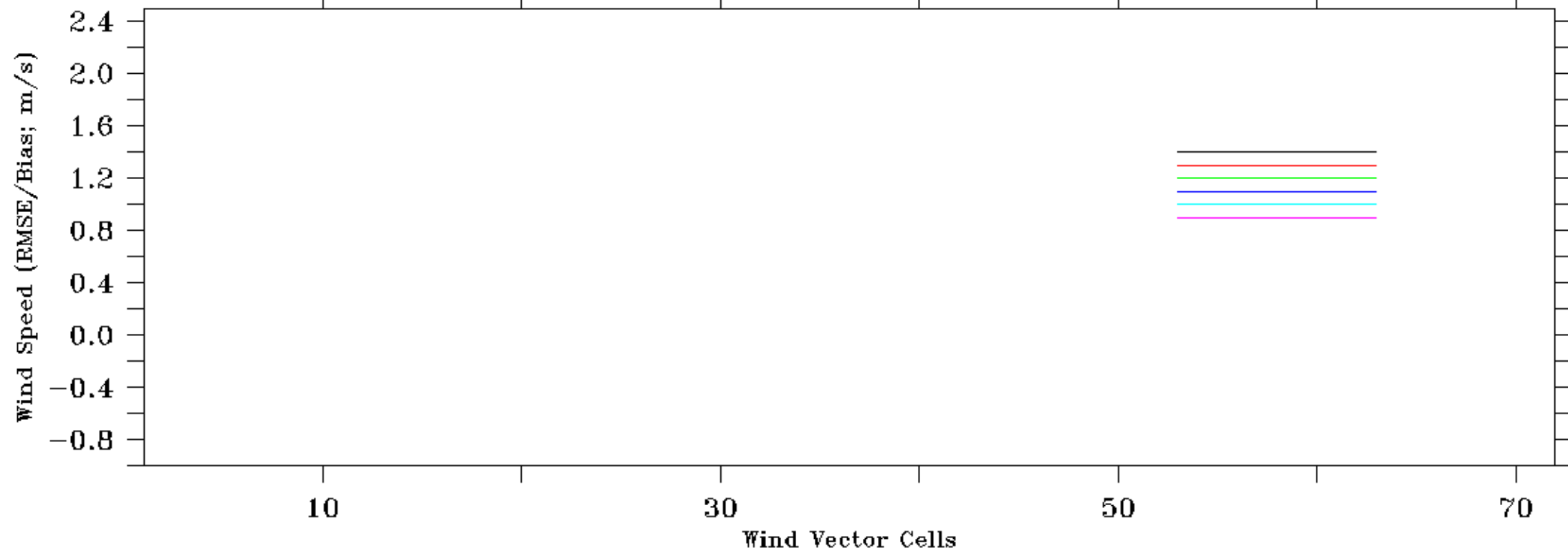
Entire Grid Undefined

Unbiased-RMS (m/s)

Un-biased RMS (°)

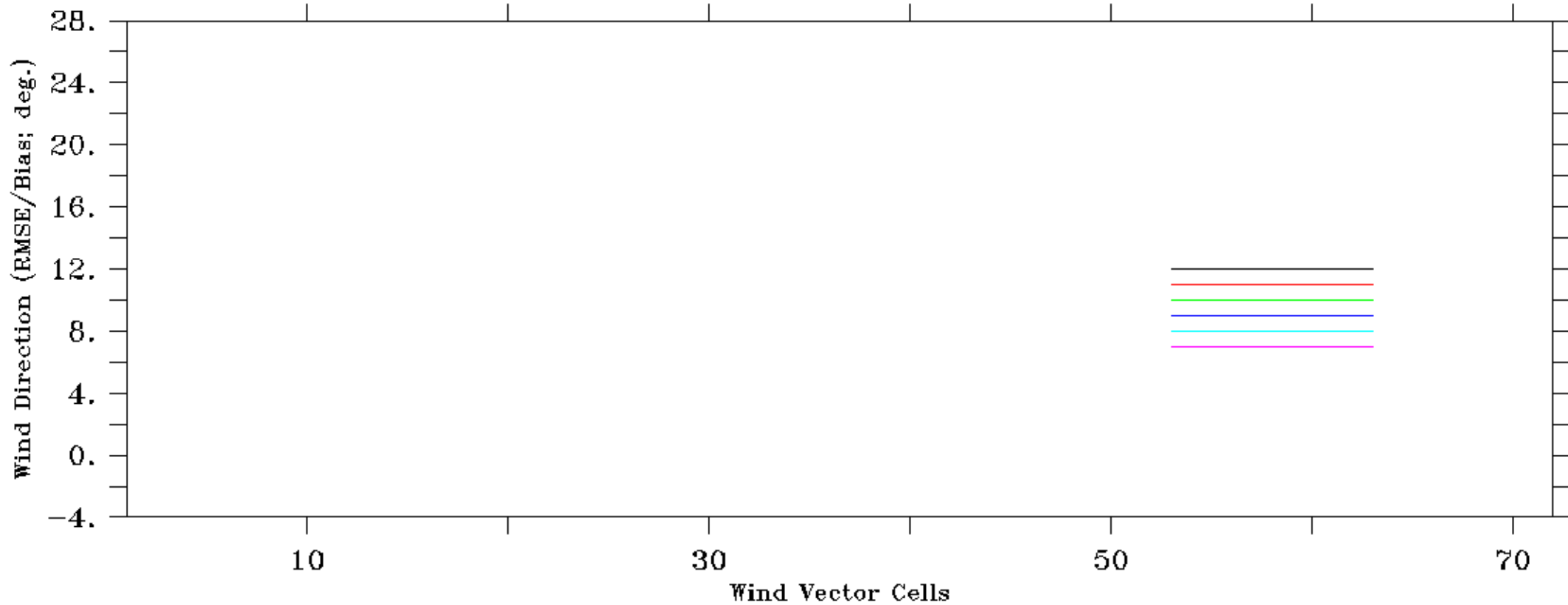
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Comparison of SCATSAT-1 and NCMRWF for all passes over global oceans



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