

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

*This automated validation is based on comparison with data from
global moored Buoys (NDBC,PIRATA,RAMA,TRITON), ASCAT & NCMRWF*

Period : 01JAN2019-31JAN2019

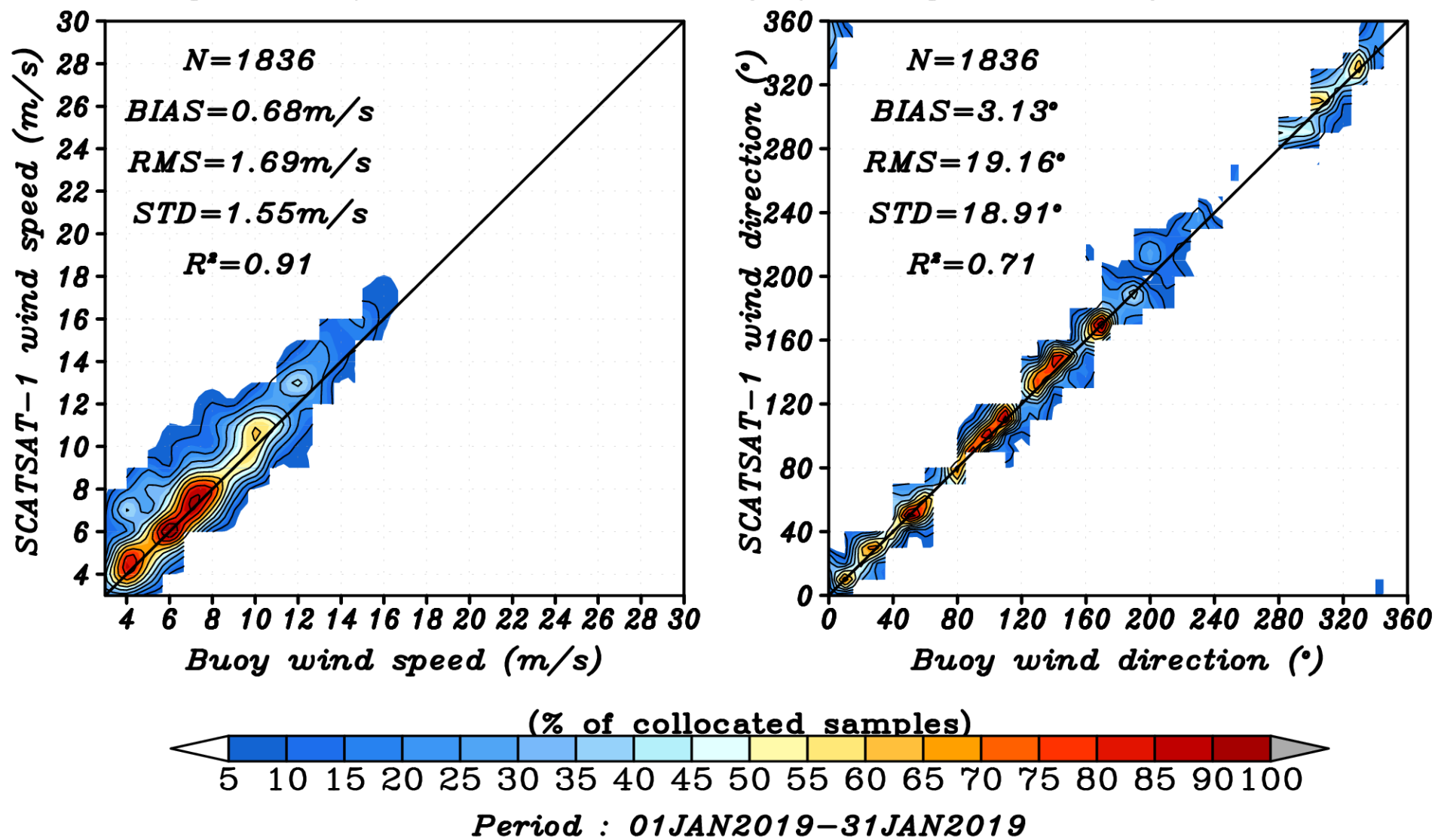
Originating Unit : GRD/AOSG/EPSSA/SAC/ISRO

COMPARISON WITH Buoy

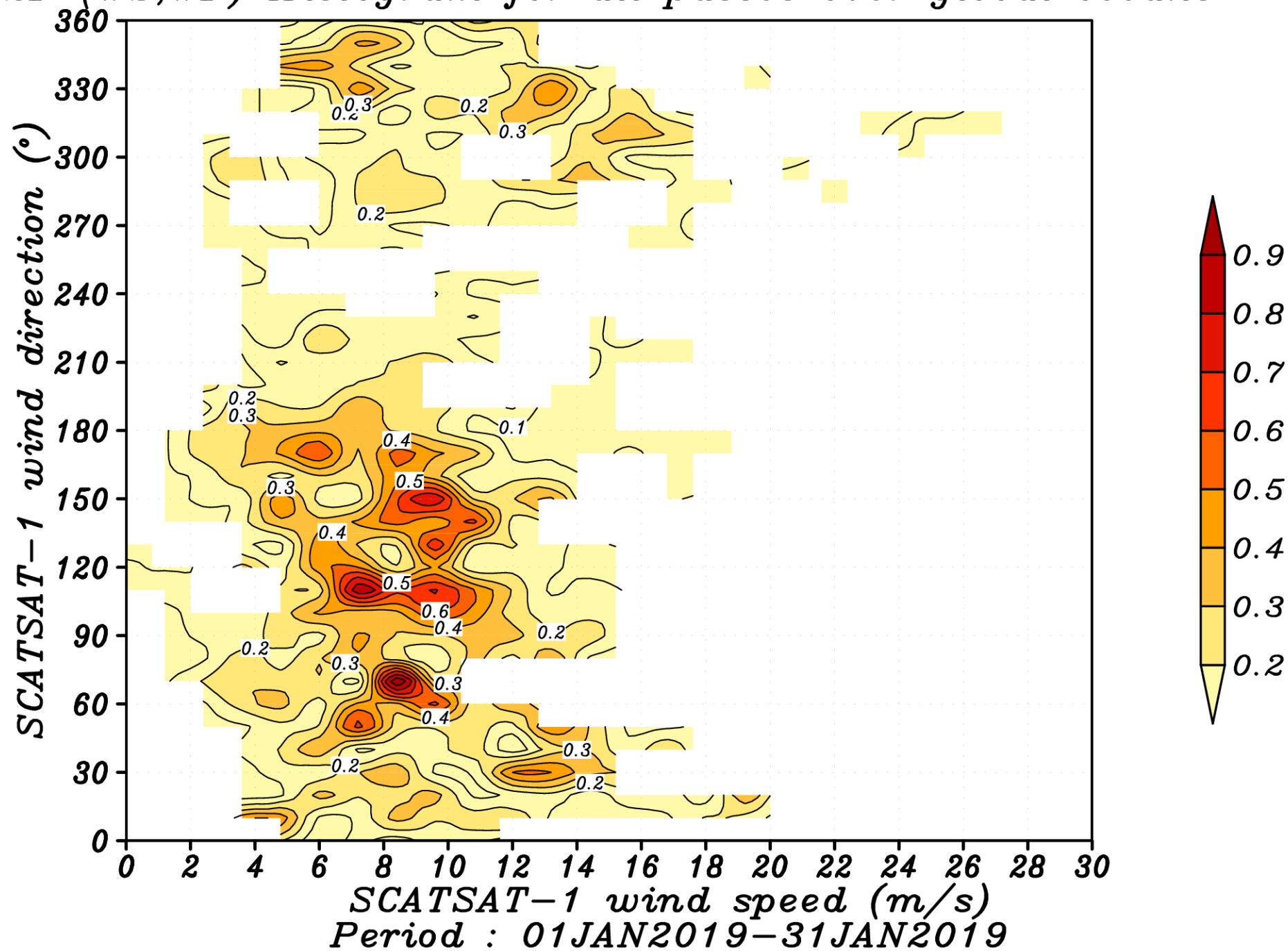
Period : 01JAN2019–31JAN2019

Collocation: delR = 0.25°; delT = 0.5 hr

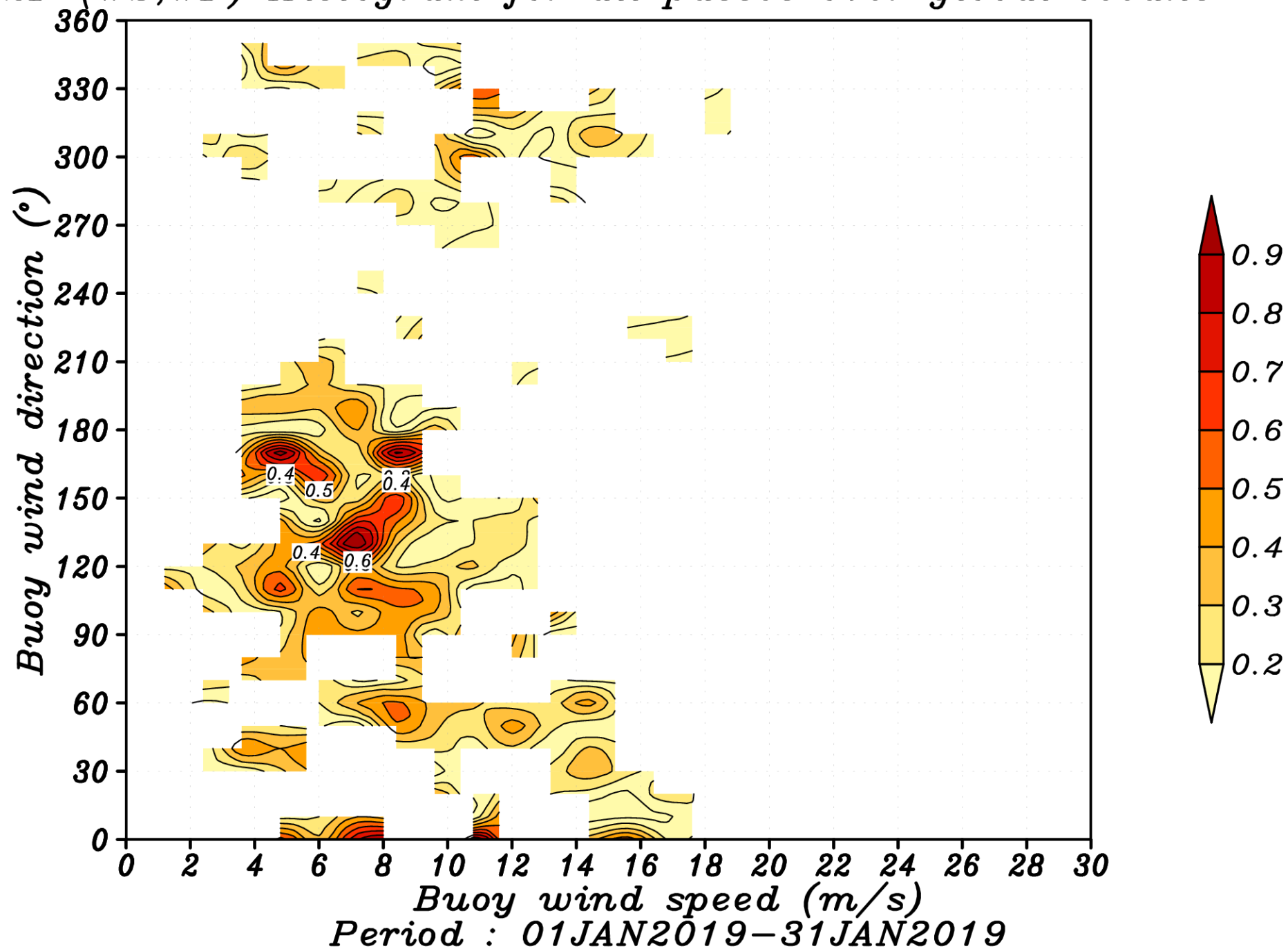
Comparison of SCATSAT-1 and Buoys for all passes over global oceans



2D (WS,WD) Histogram for all passes over global oceans



2D (WS,WD) Histogram for all passes over global oceans

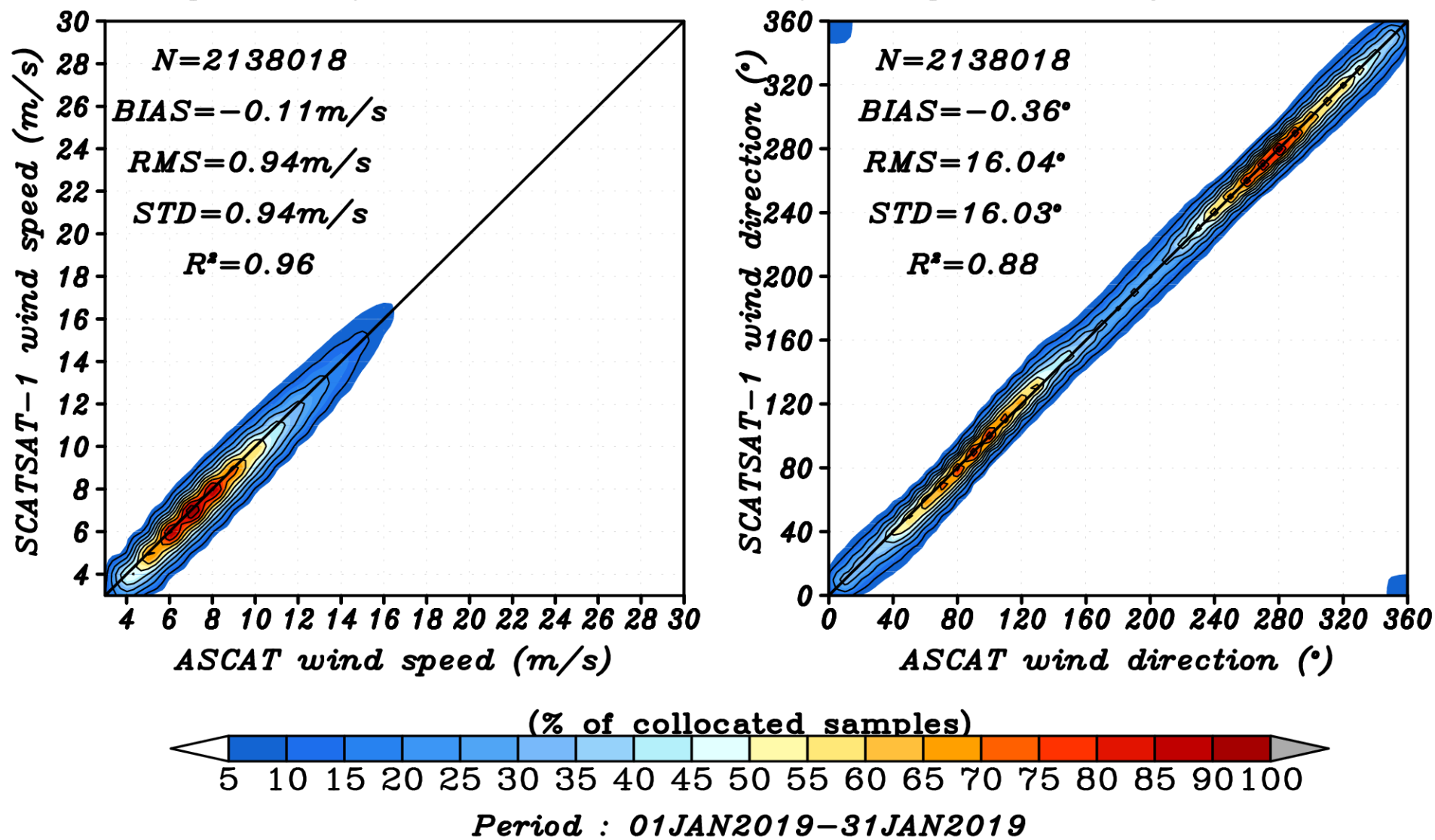


COMPARISON WITH ASCAT

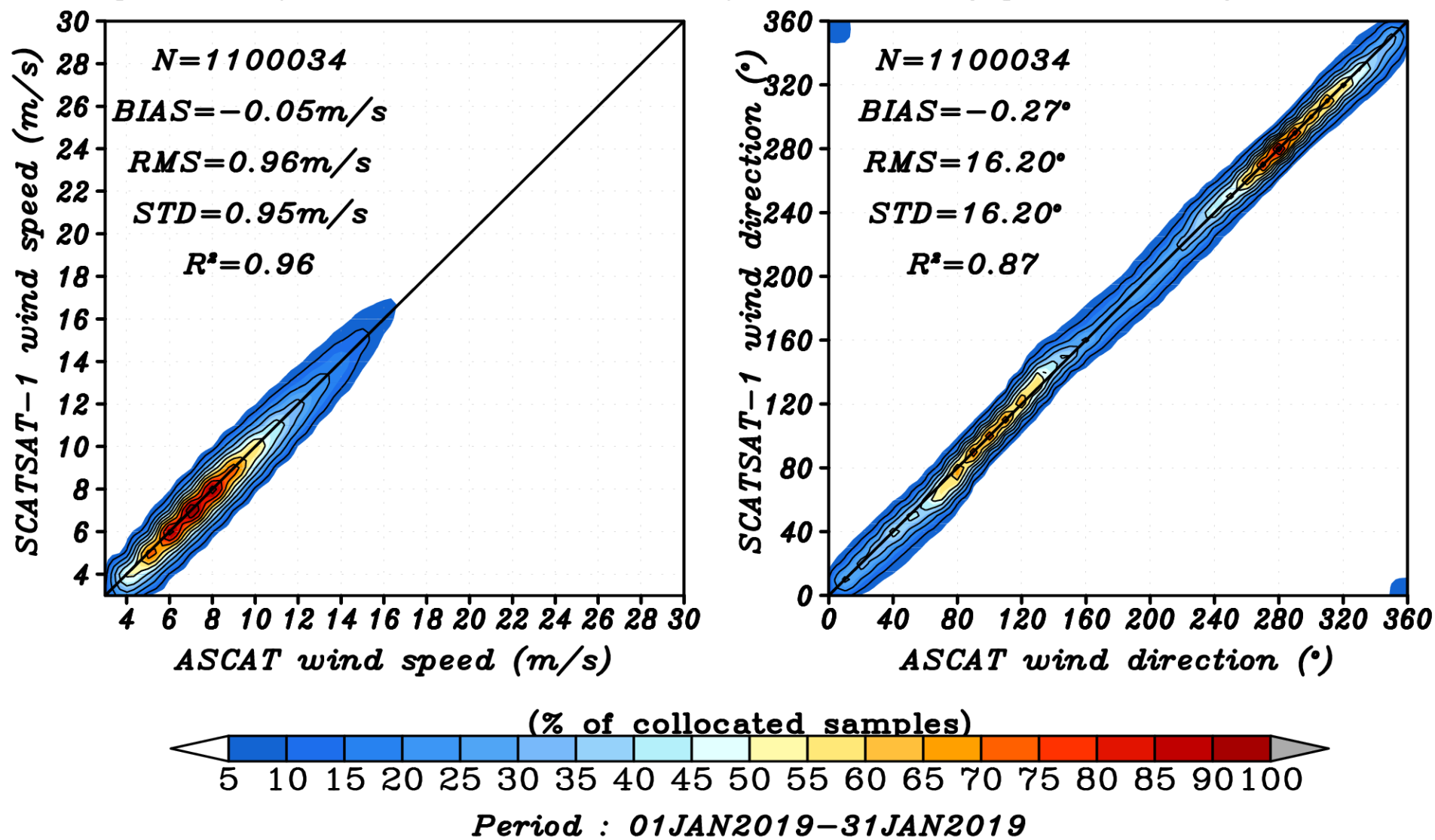
Period : 01JAN2019–31JAN2019

Collocation: $\text{del}R = 0.25^\circ$; $\text{del}T = 0.5 \text{ hr}$

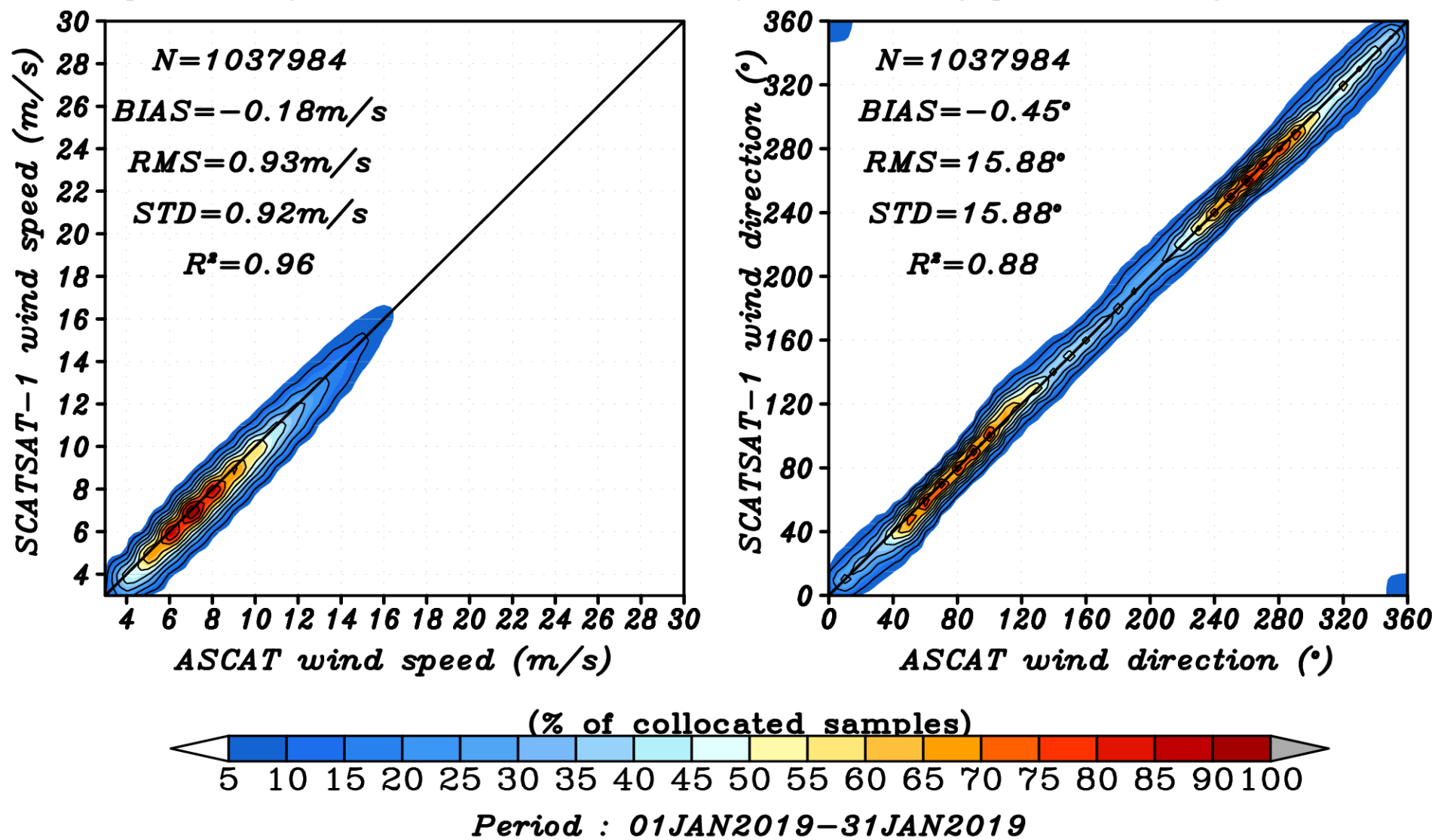
Comparison of SCATSAT-1 and ASCAT for all passes over global oceans



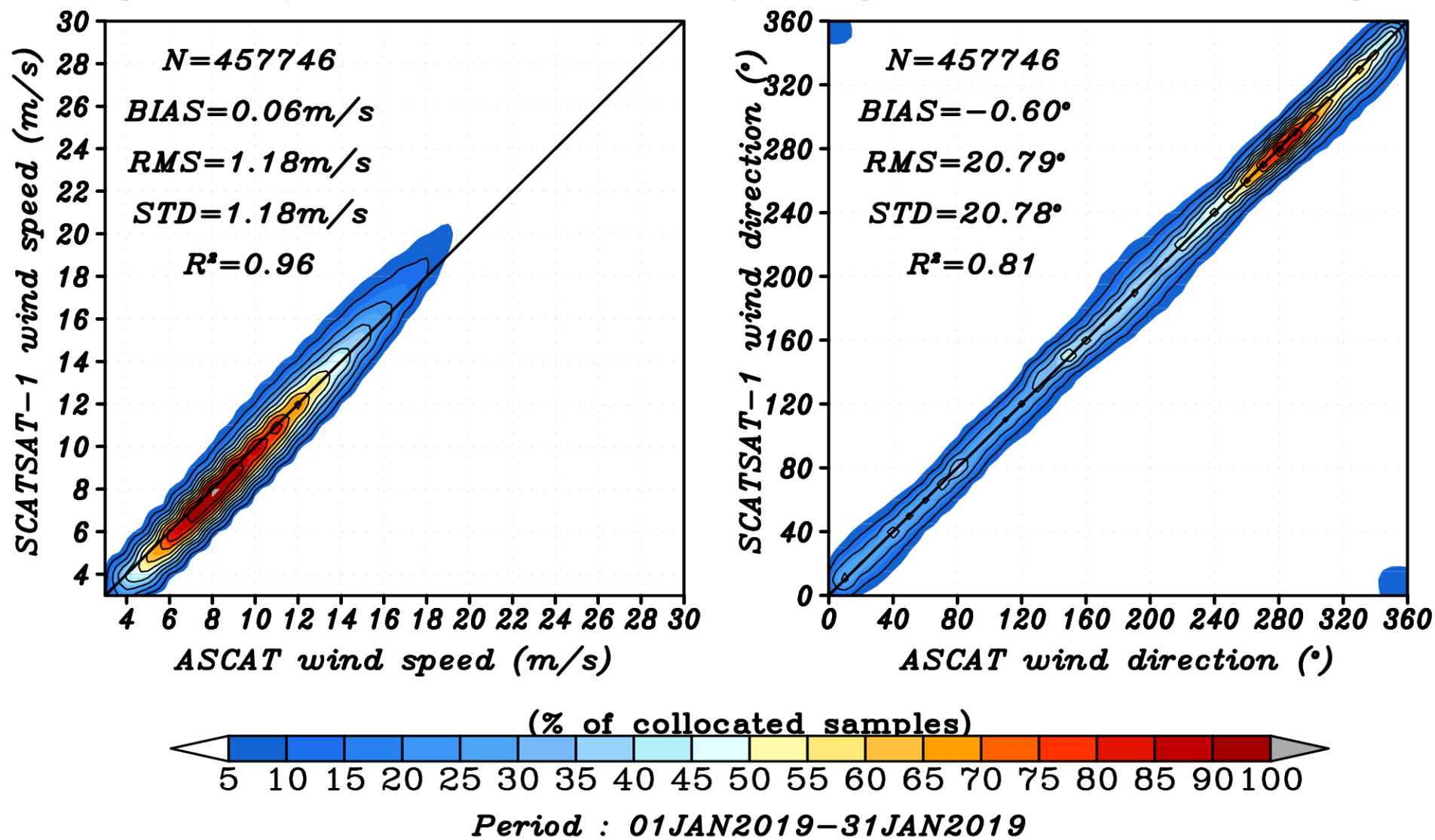
Comparison of SCATSAT-1 and ASCAT for Descending passes over global oceans



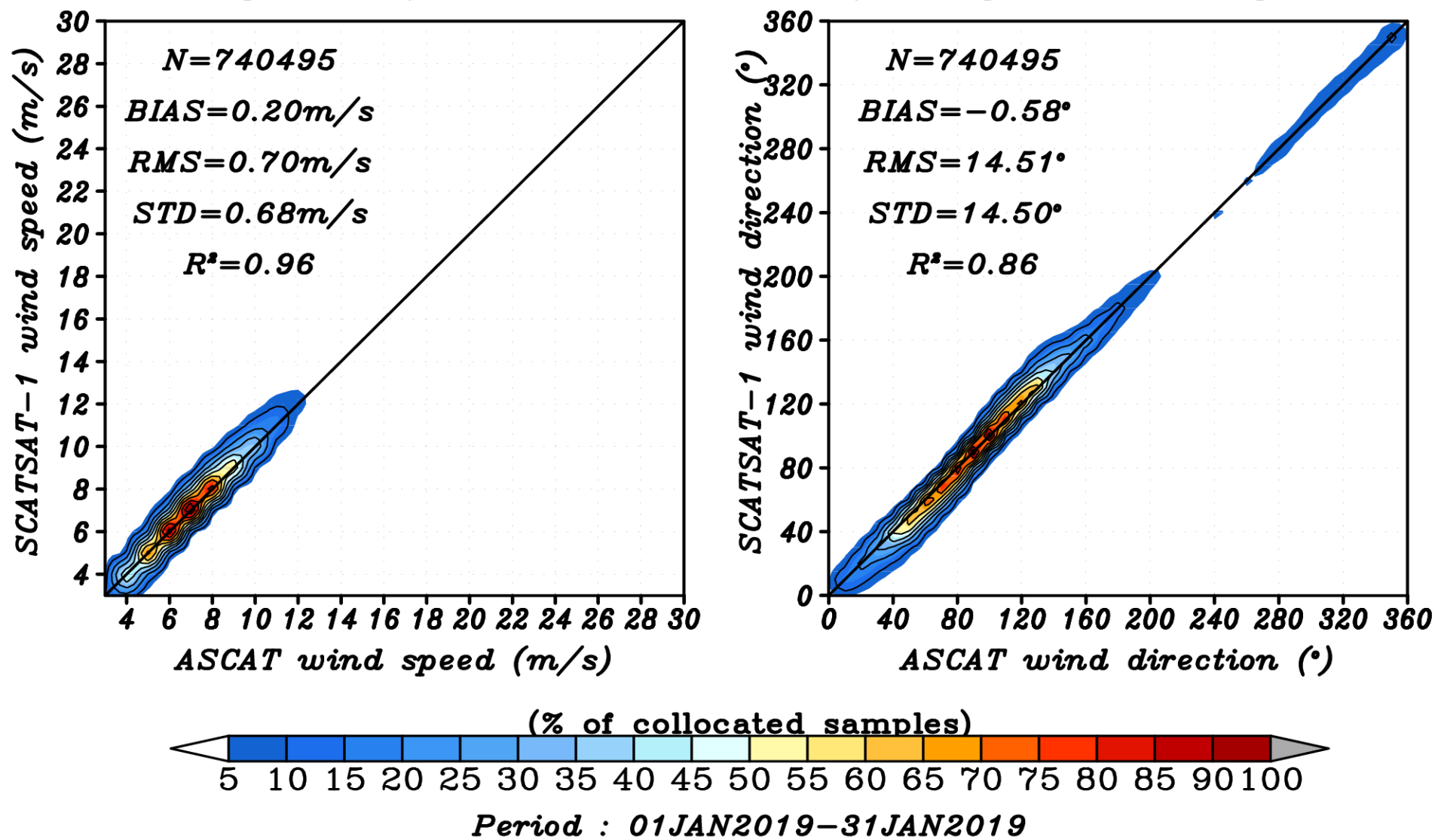
Comparison of SCATSAT-1 and ASCAT for Ascending passes over global oceans



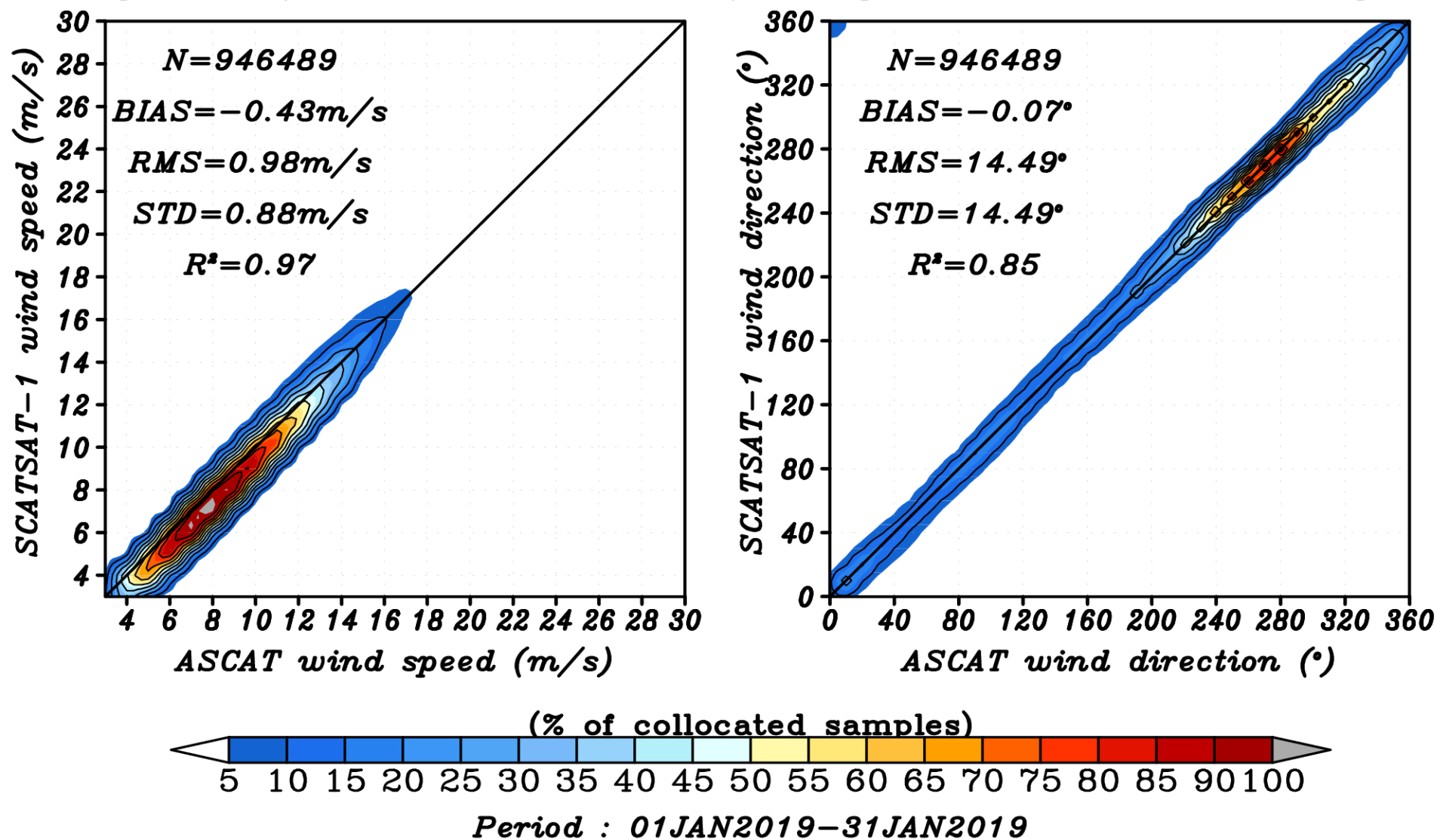
Comparison of SCATSAT-1 and ASCAT for all passes over Northern Hemisphere



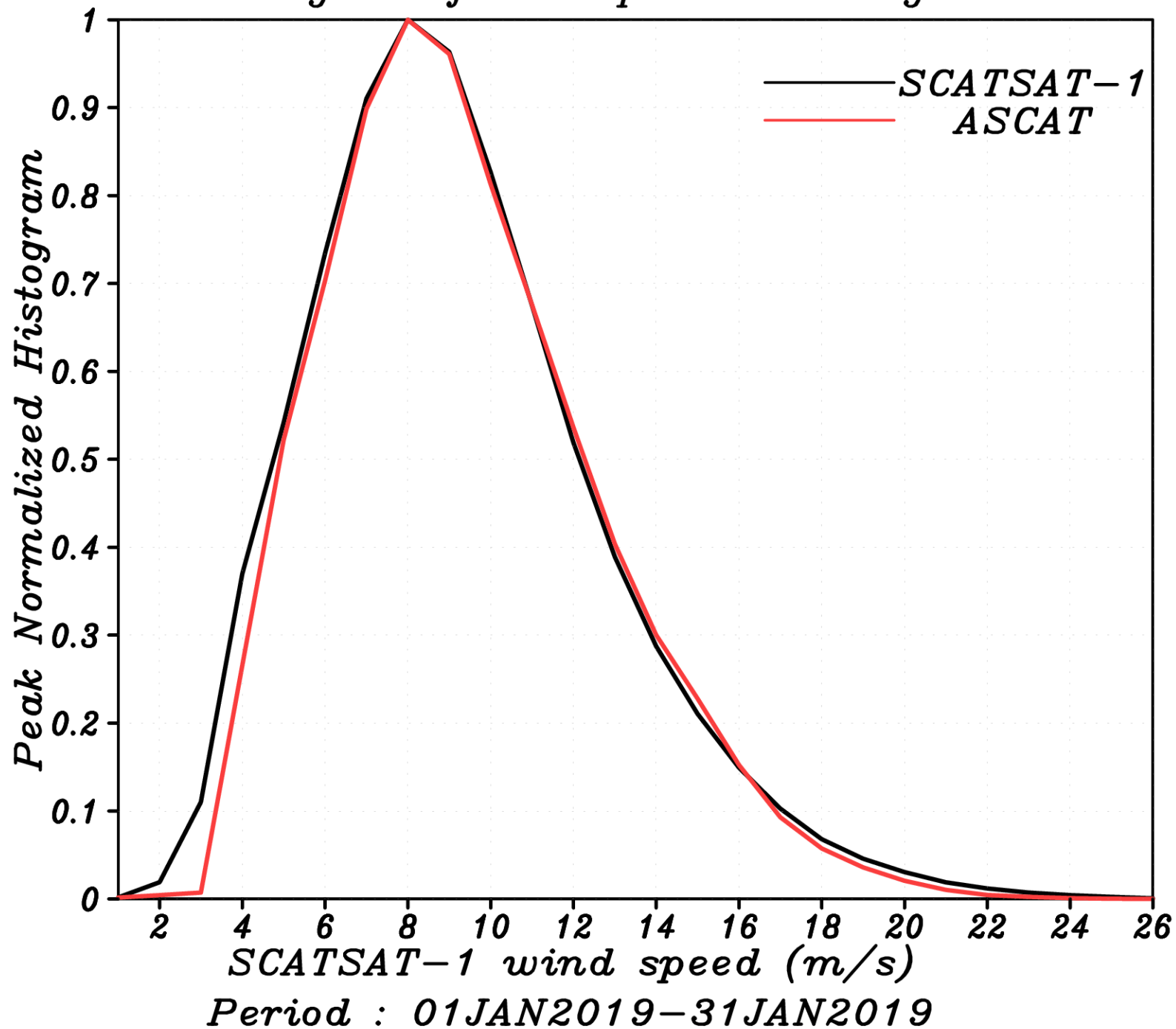
Comparison of SCATSAT-1 and ASCAT for all passes over Tropics



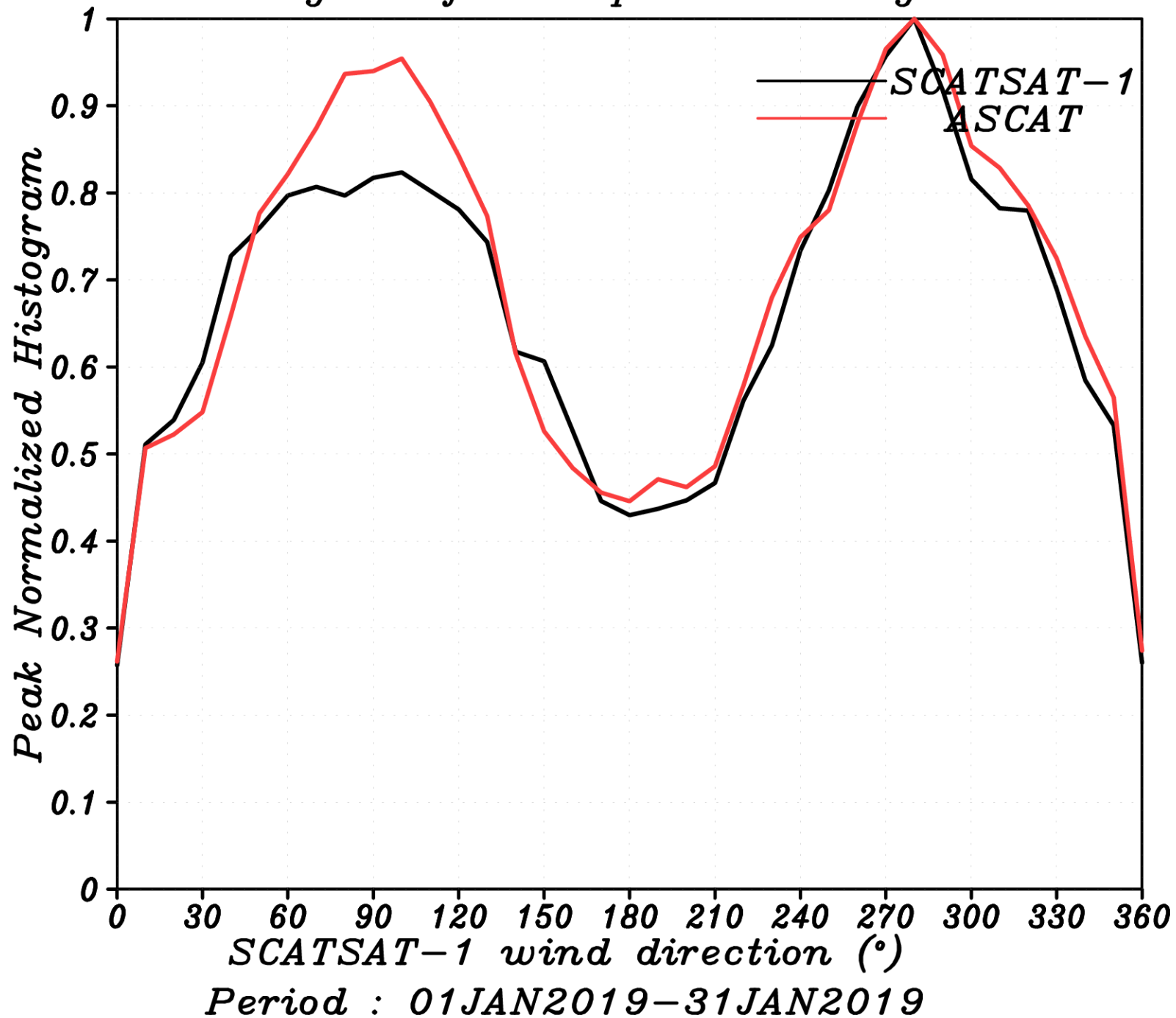
Comparison of SCATSAT-1 and ASCAT for all passes over Southern Hemisphere



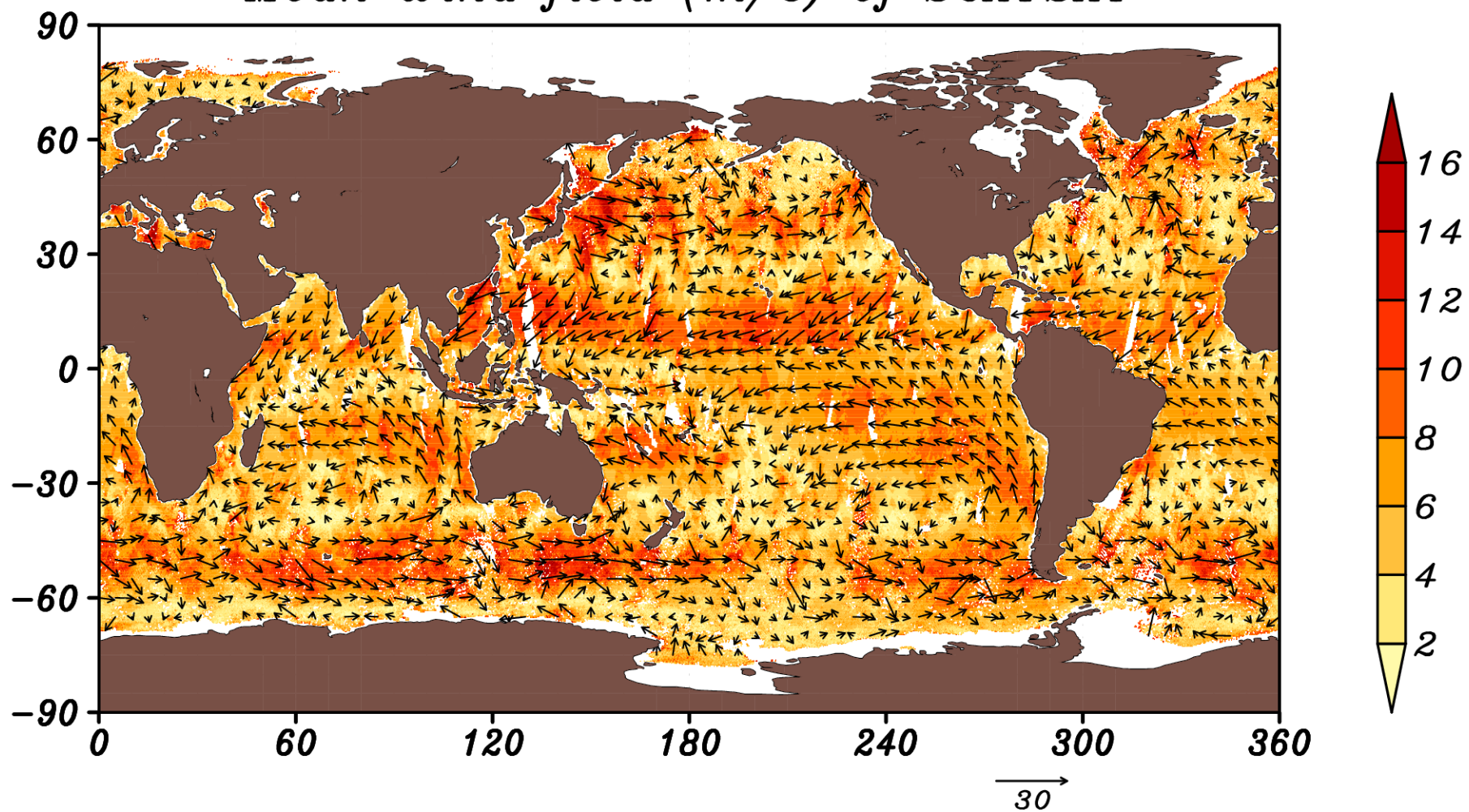
Wind Histogram for all passes over global oceans



Wind Histogram for all passes over global oceans

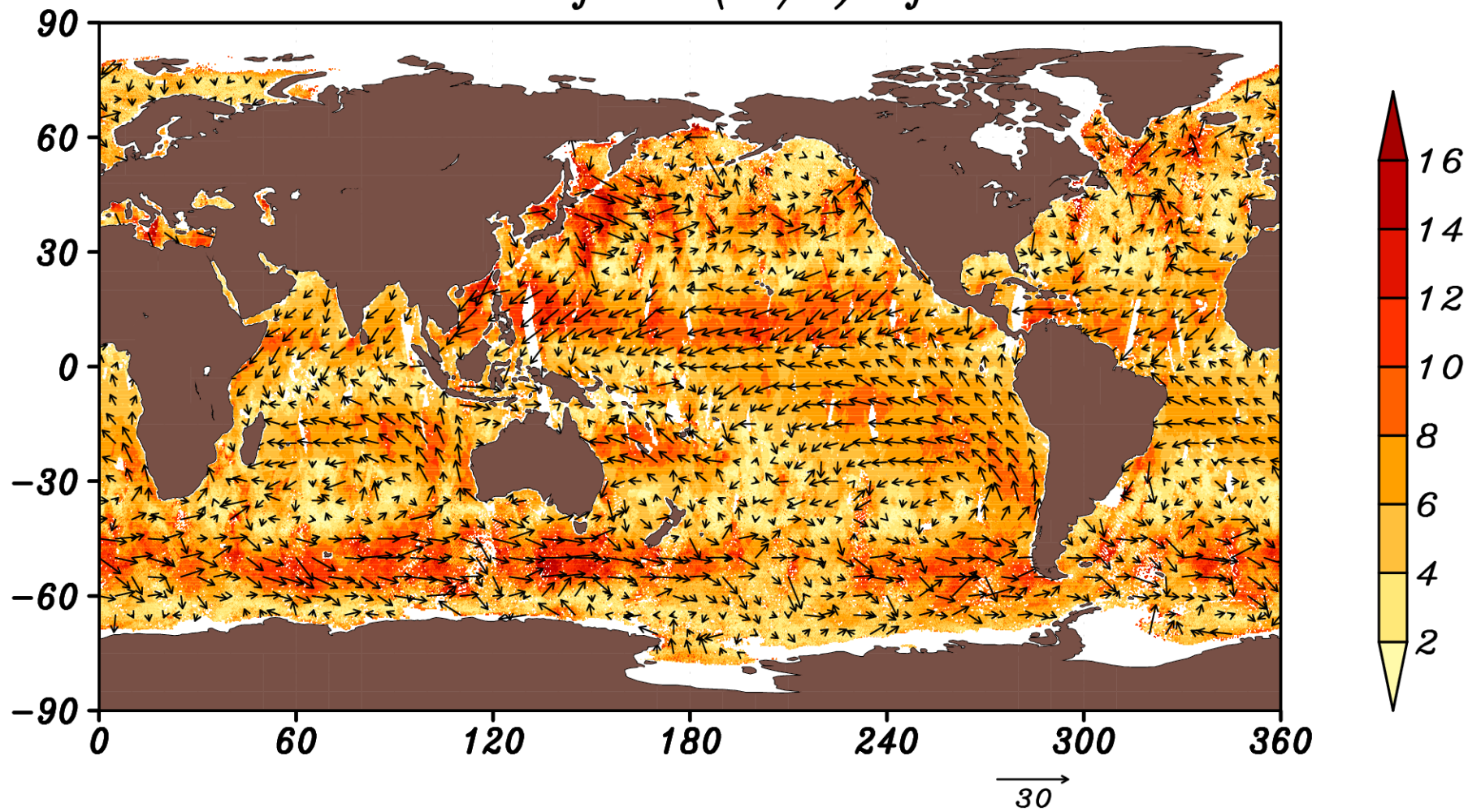


Mean wind field (m/s) of SCATSAT



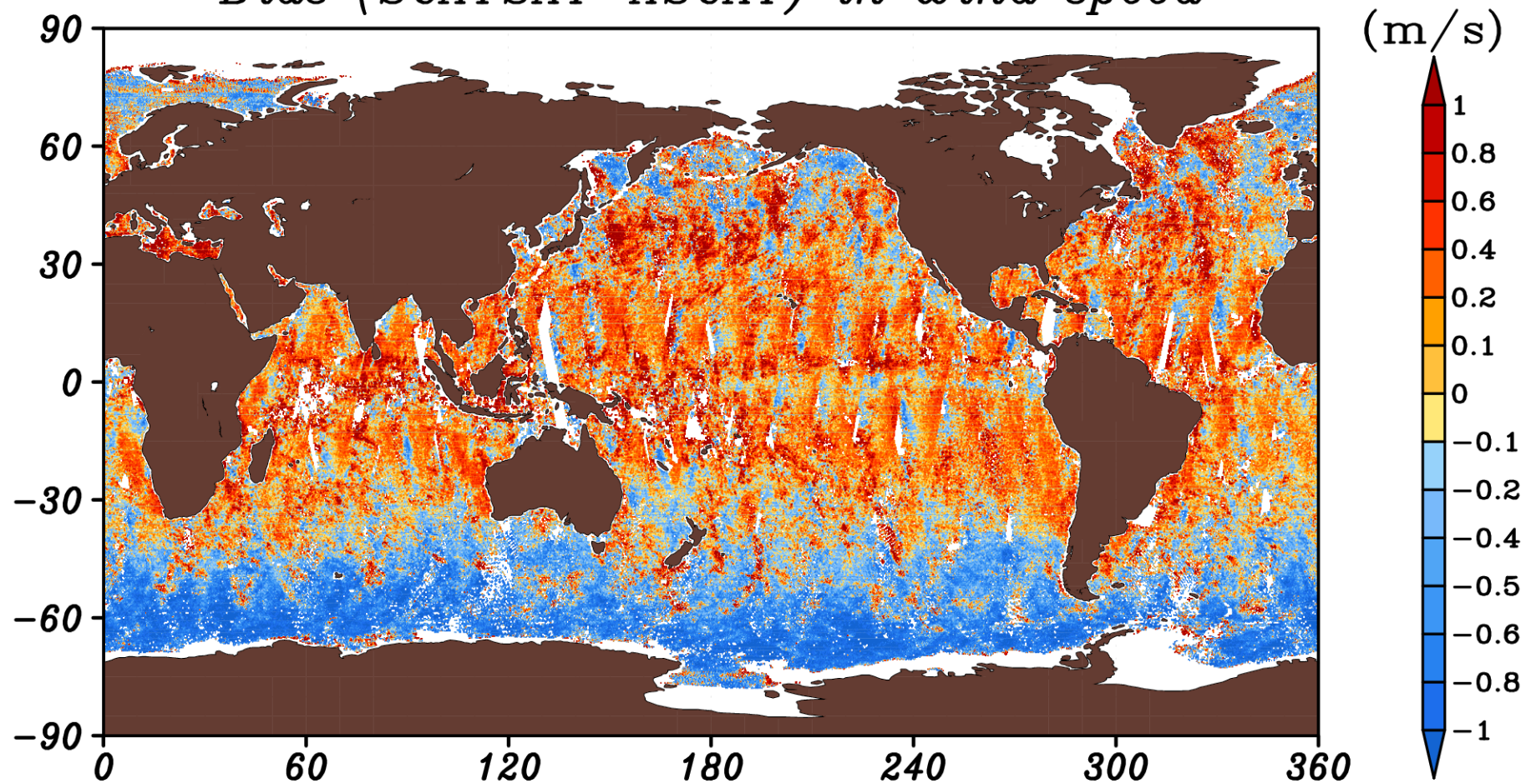
Period: 01 JAN 2019 – 31 JAN 2019

Mean wind field (m/s) of ASCAT



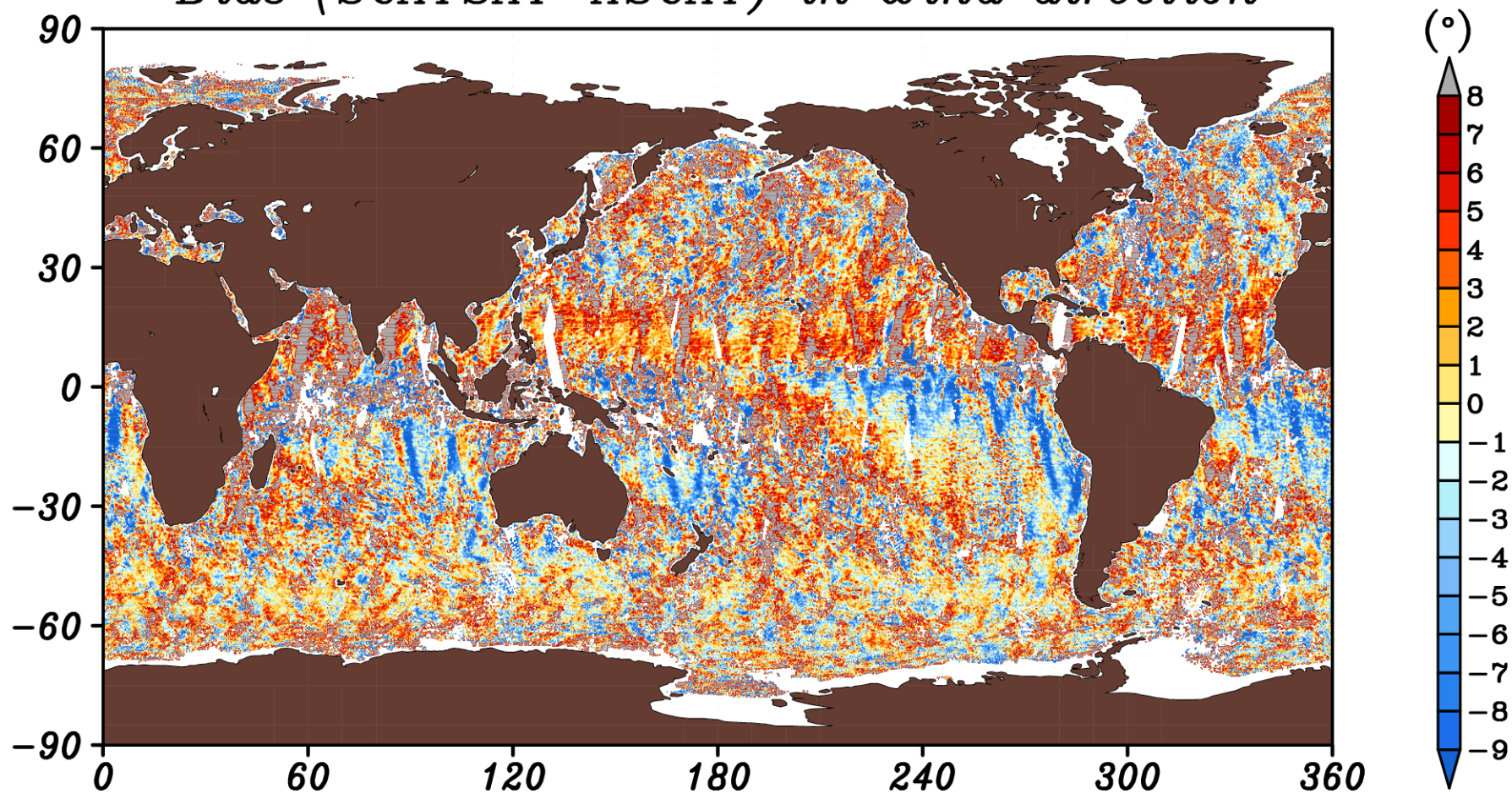
Period: 01 JAN 2019 – 31 JAN 2019

Bias (SCATSAT-ASCAT) in wind speed



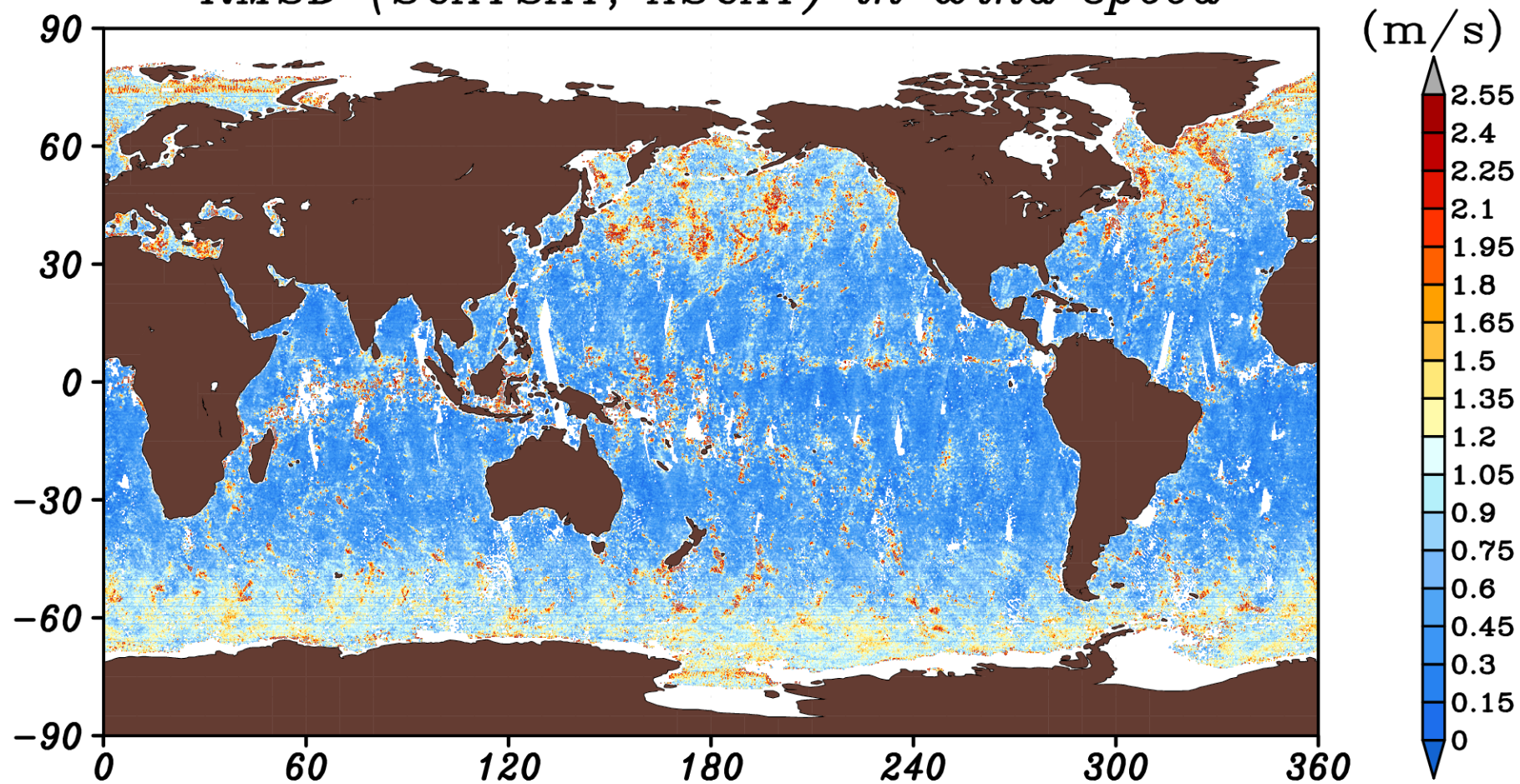
Period : 01JAN2019–31JAN2019

Bias (SCATSAT-ASCAT) in wind direction



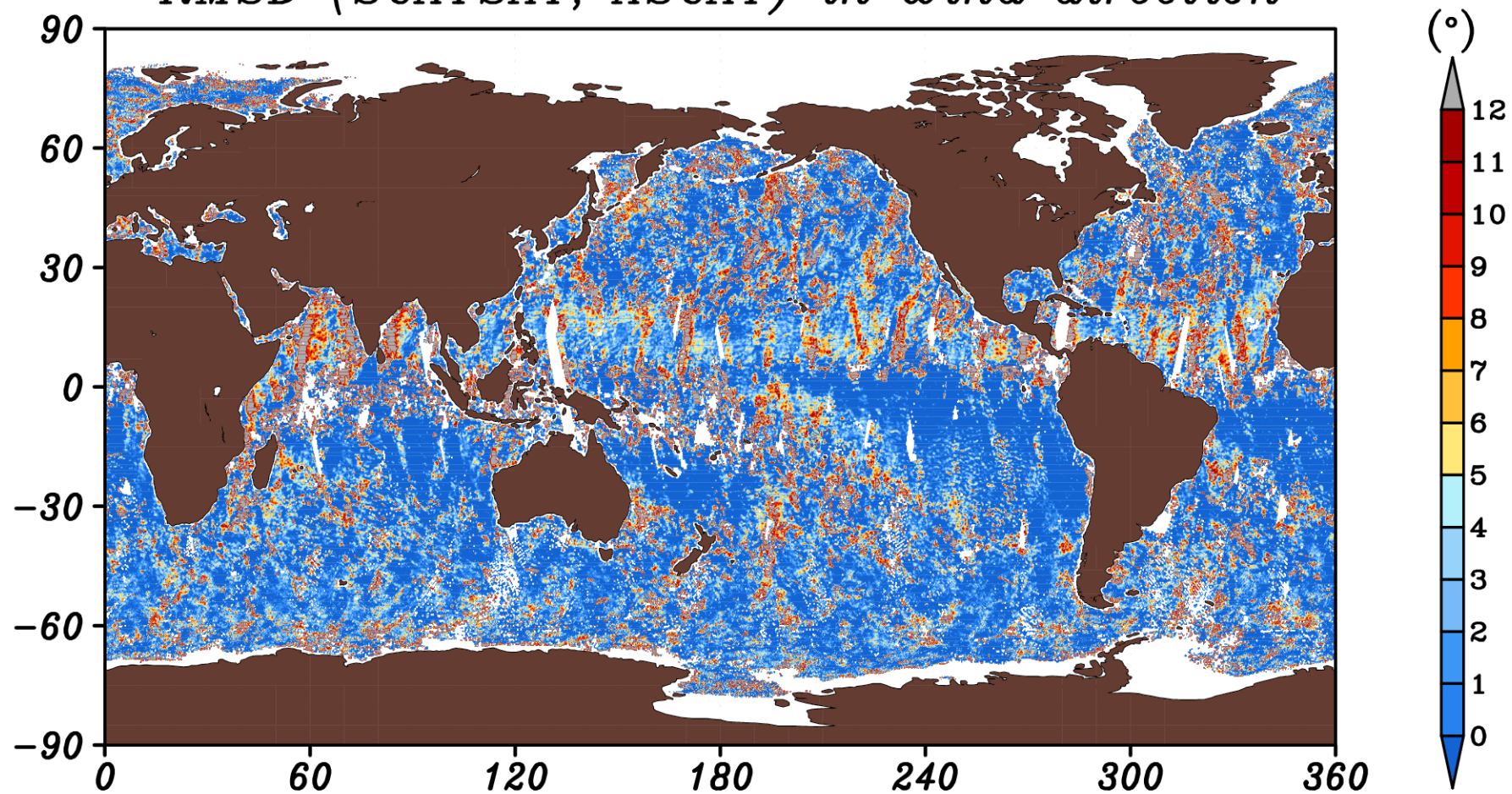
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RMSD (SCATSAT, ASCAT) in wind speed



Period : 01JAN2019–31JAN2019

RMSD (SCATSAT, ASCAT) in wind direction



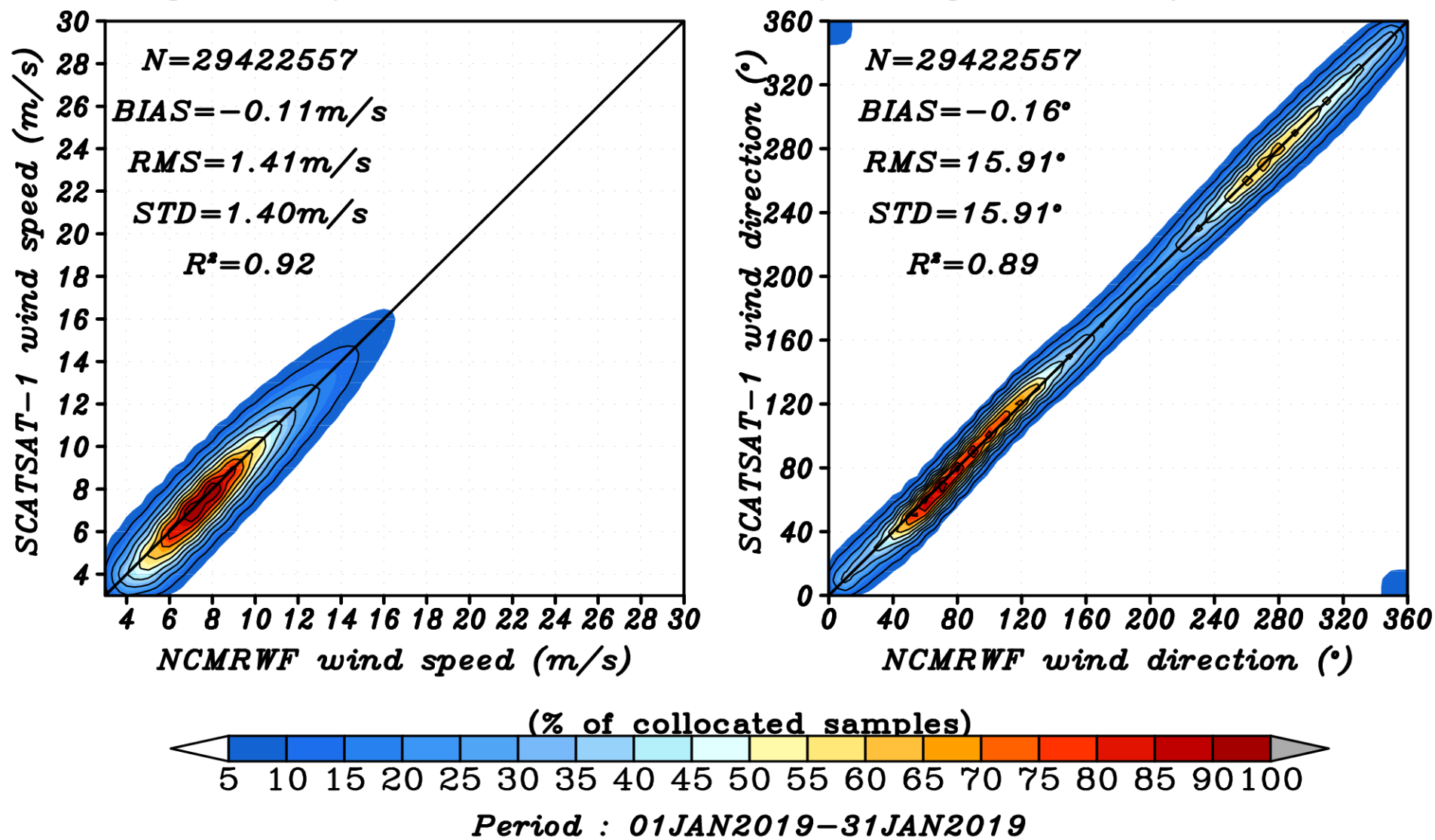
Period : 01JAN2019–31JAN2019

COMPARISON WITH NWP(NCMRWF)

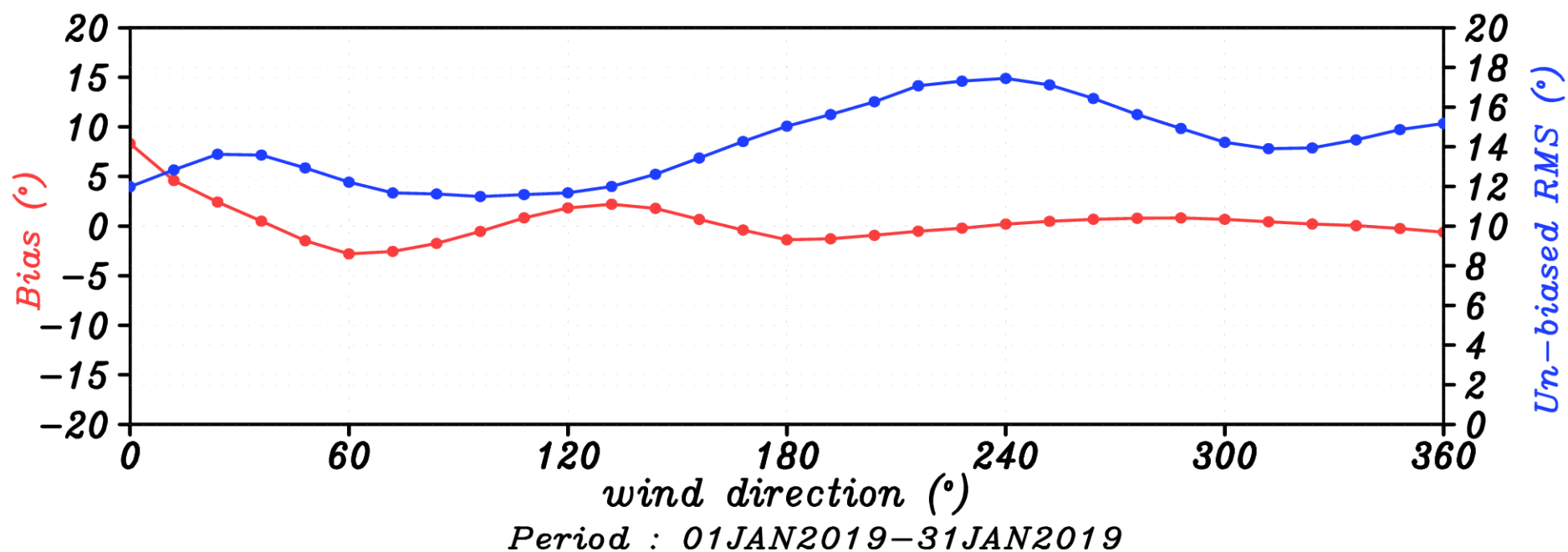
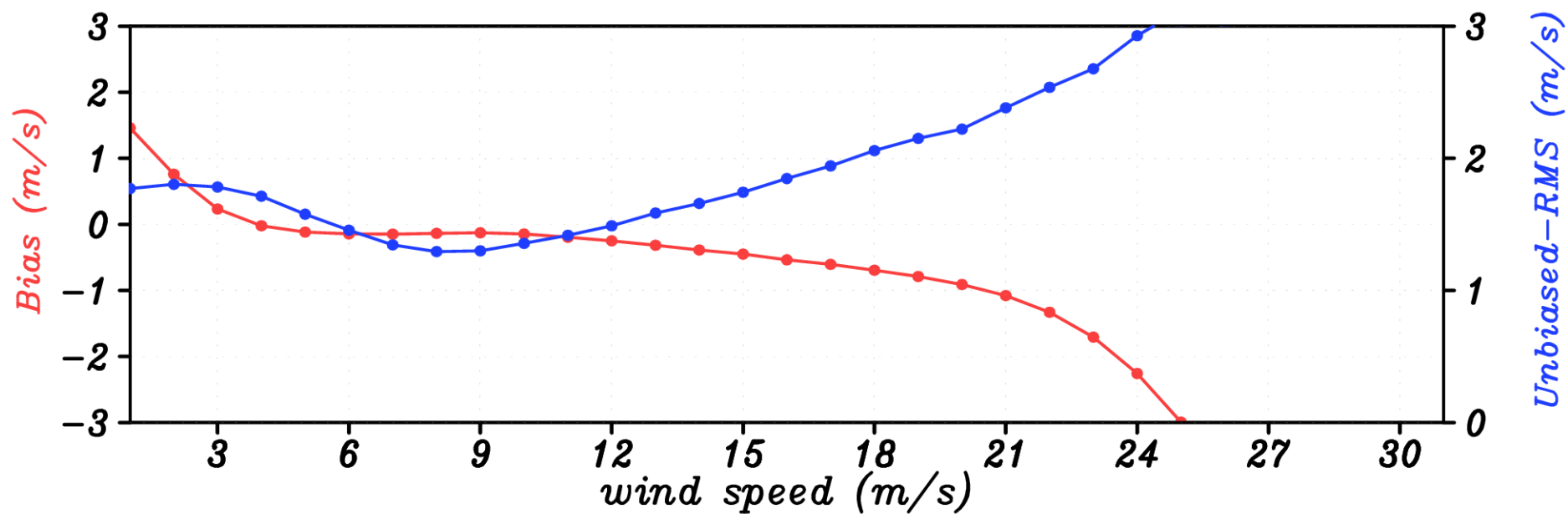
Period : 01JAN2019–31JAN2019

Collocation: delR=0.25°; delT=+/-3 hr

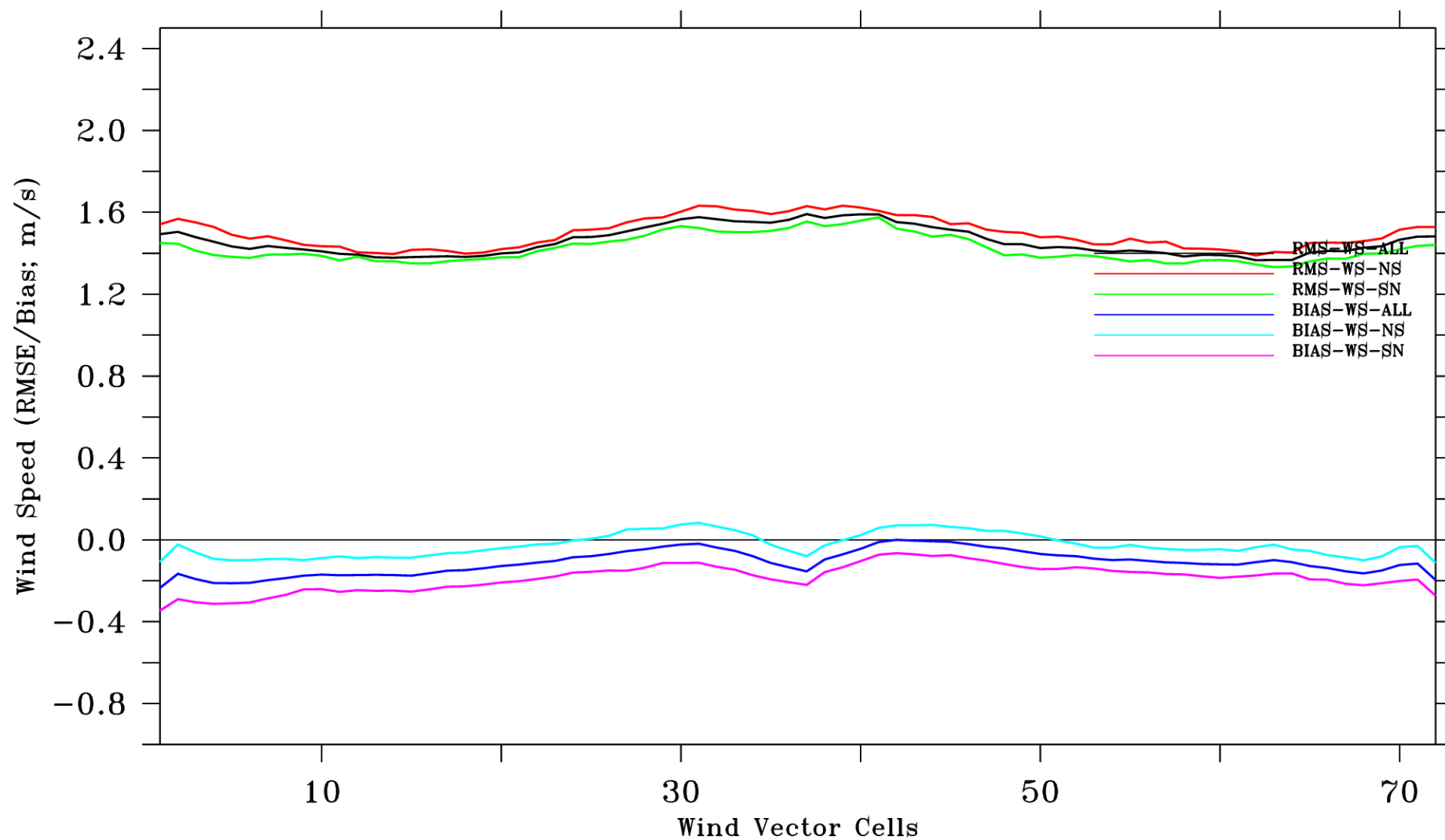
Comparison of SCATSAT-1 and NCMRWF for all passes over global oceans



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

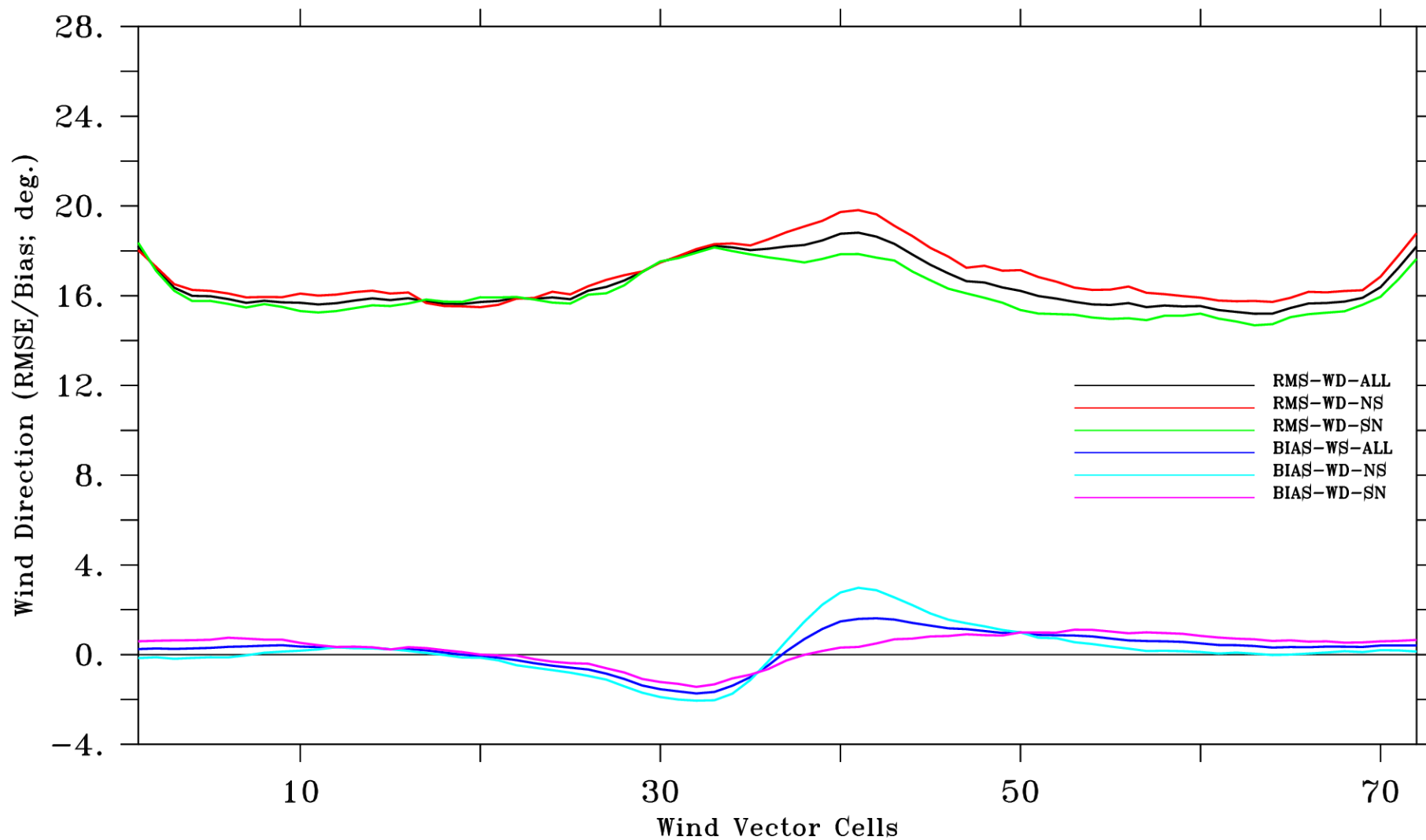


Comparison of SCATSAT-1 and NCMRWF for all passes over global oceans

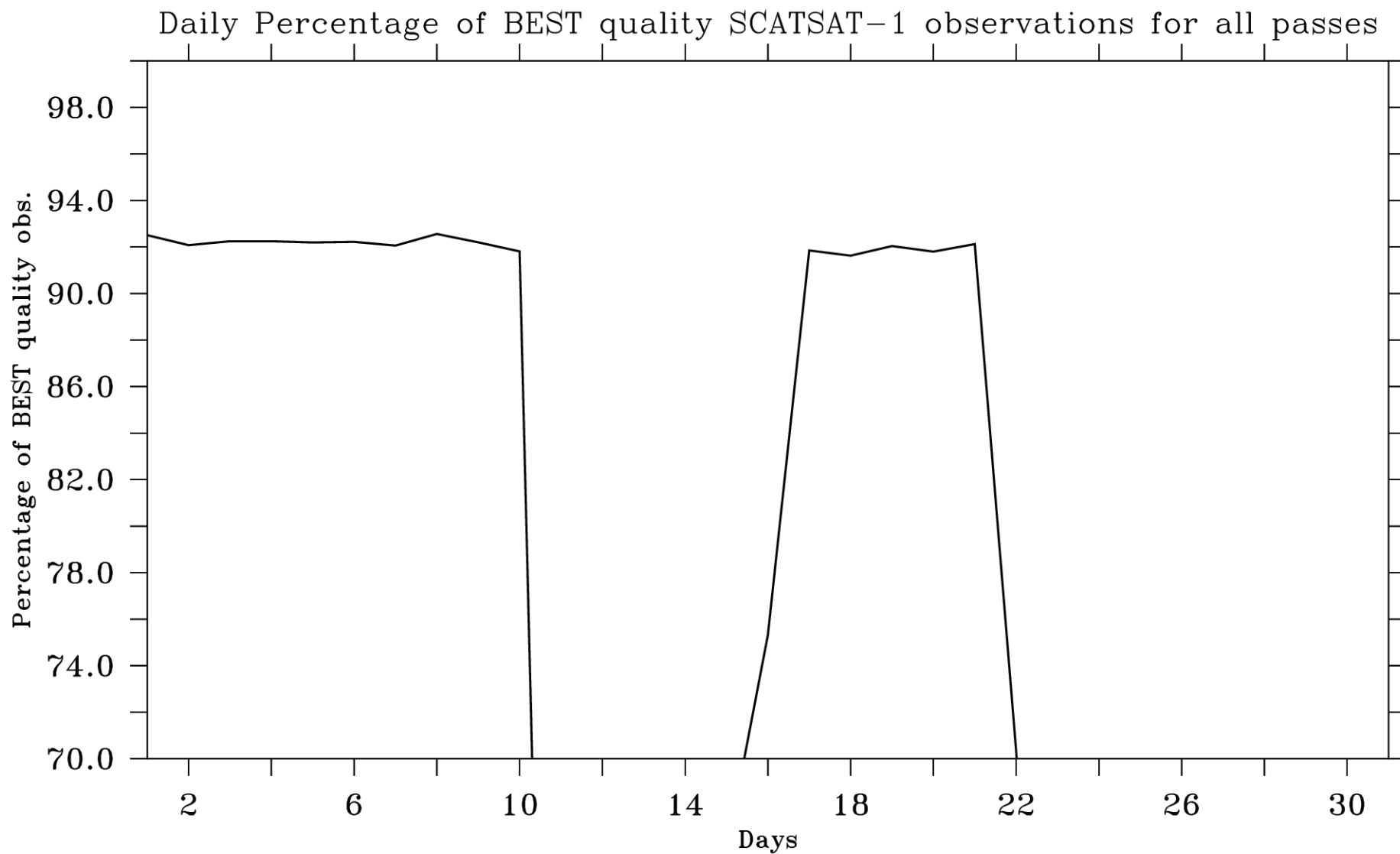


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