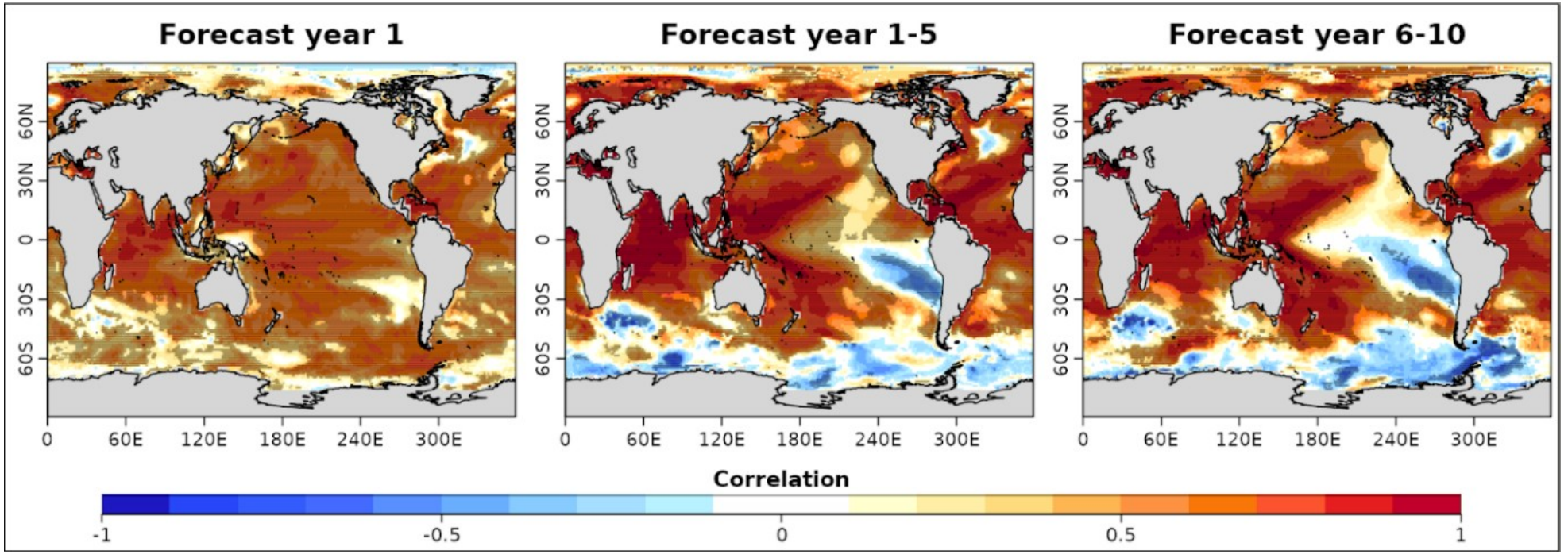
WP4 Highlights since last CMUG Integration meeting

Andreas Wernecke, Pablo Ortega, Frederique Cheruy, Rob King, Roberto Bilbao, Jaume Ruíz de Morales, Froila Palmeiro, Louis-Philippe Caron, Dirk Notz, Deborah Hemming, Zhao Yanfeng and Amen Al-Yaari

Decadal Climate Prediction Project - Skill assessment

Roberto Bilbao, Jaume Ruíz de Morales, Froila Palmeiro, Pablo Ortega and Louis-Philippe Caron (BSC)



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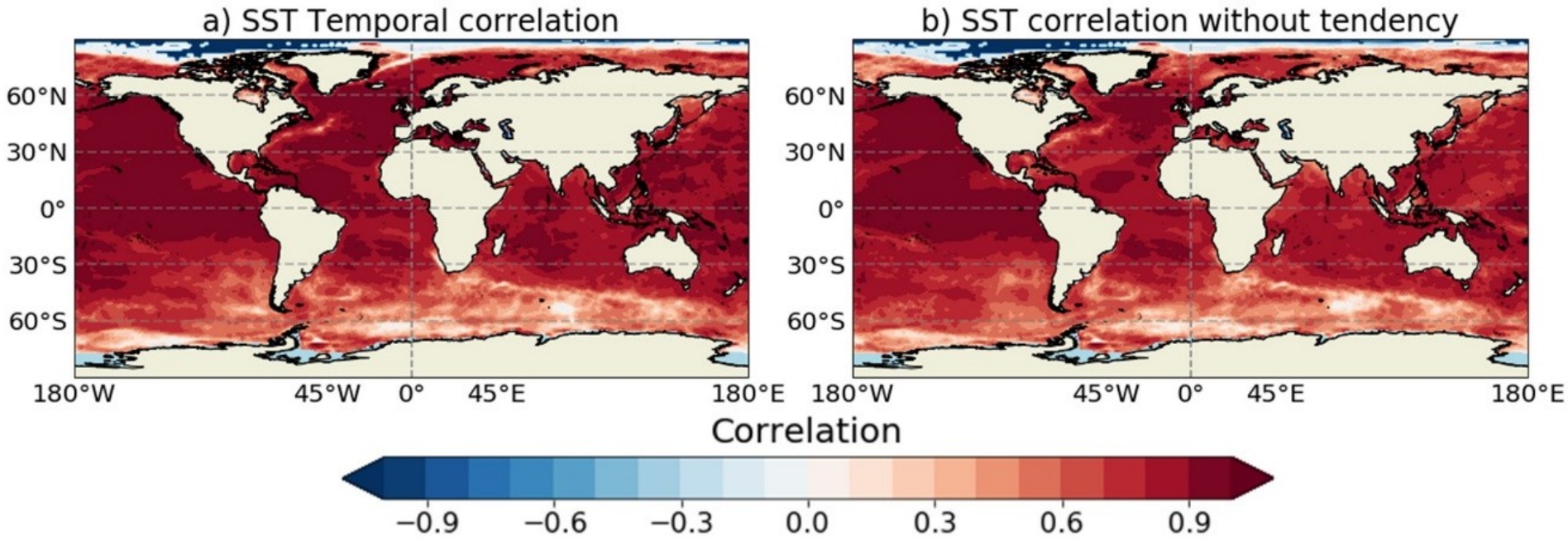

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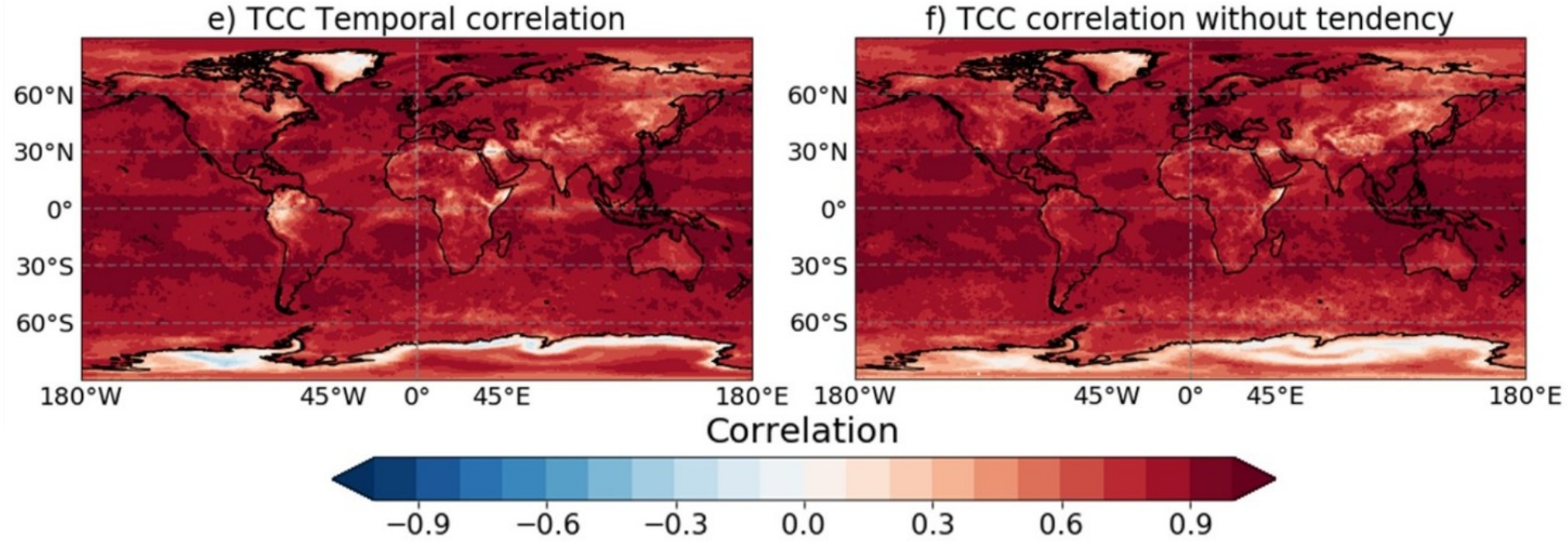

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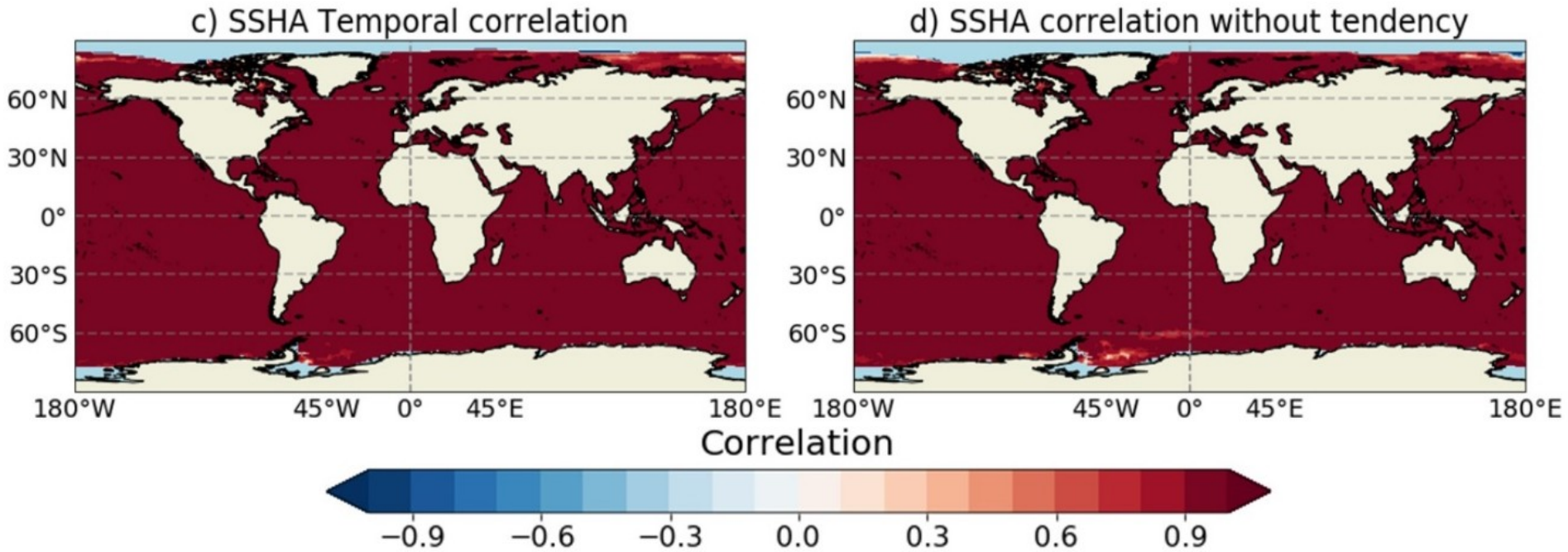
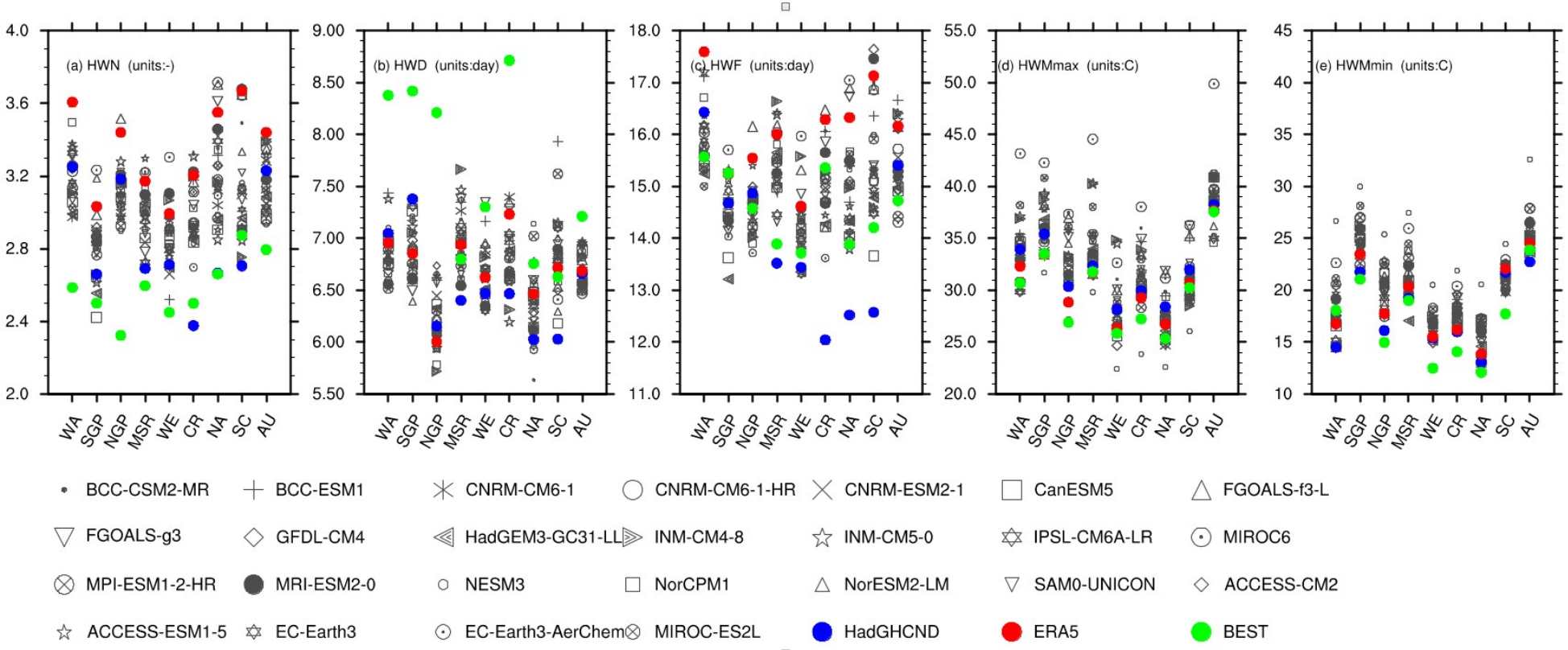


Assess the land-surface interaction related biases in AMIP simulations with CCI and other products

Frederique Cheruy (IPSL)



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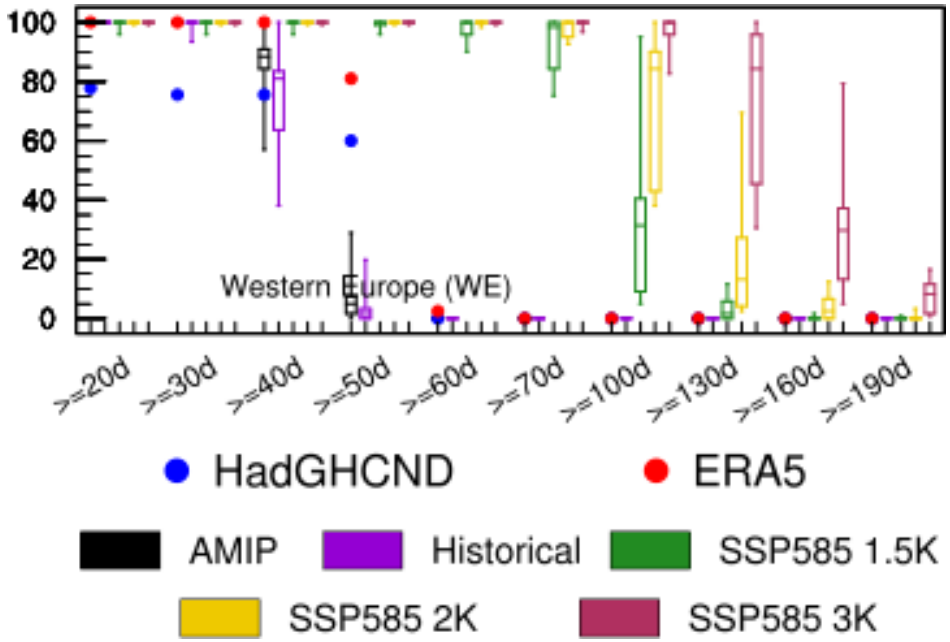
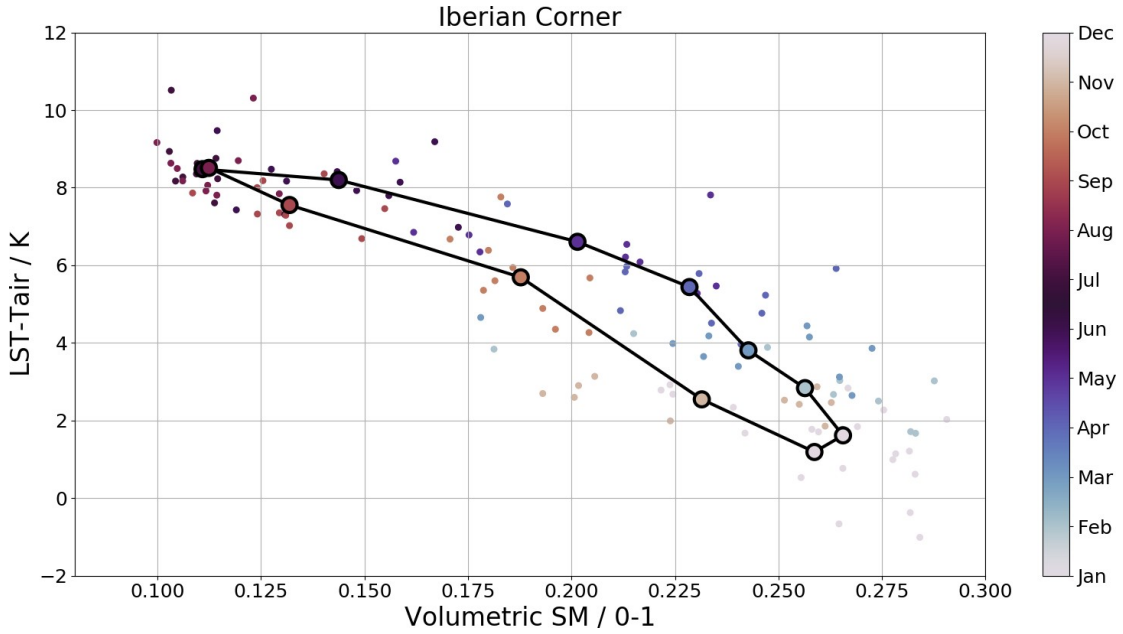


- Percentage of pixels in Europe with Heat Wave (HW) days above threshold
- HadGHCND has less spatial coverage but longer HWs than historical
- Limiting warming to 1.5K instead of 3K reduces HW days by about 60 per year

Use LST products to develop and test simple models relating the LST versus air temperature (near surface) difference to vegetation moisture stress

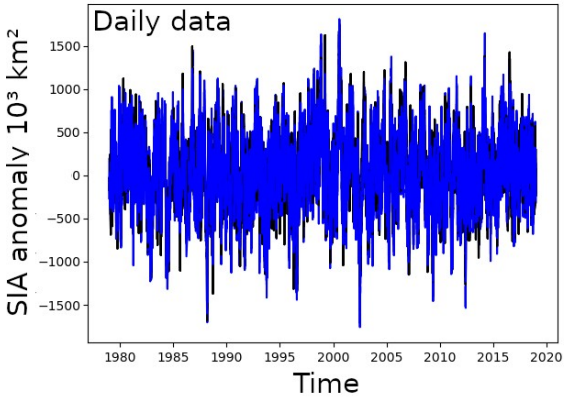
Rob King, Deborah Hemming
(Met Office)

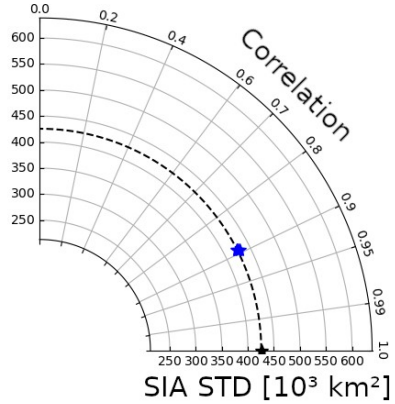


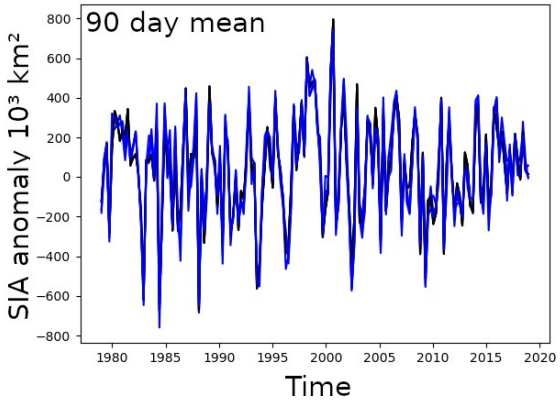
- Relationship between LST and air Temperature and near surface soil Moisture
- Changes in leaf transpiration likely reason (vary across bioms)
- Quantify on satellite scale for model evaluation

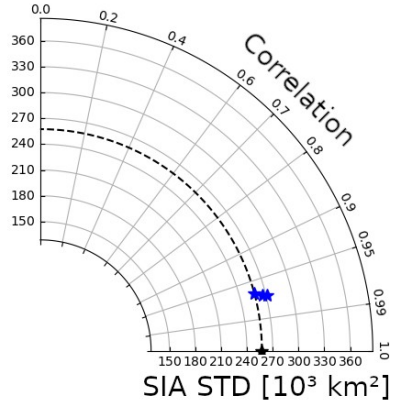
D4-4.4 Optimal spatial and temporal scales for model evaluation

Andreas Wernecke, Dirk Notz (MPI-M)









- Consistency of Sea Ice Area satellite products (CCI/OSI-SAF, NASA-Team, NASA-Bootstrap,NASA-Merged)
- Degrading the temporal resolution reduces signal (STD) and increase consistency (correlation)
- Rate of improvement is informative about error characteristics

D4-4.4 Optimal spatial and temporal scales for model evaluation

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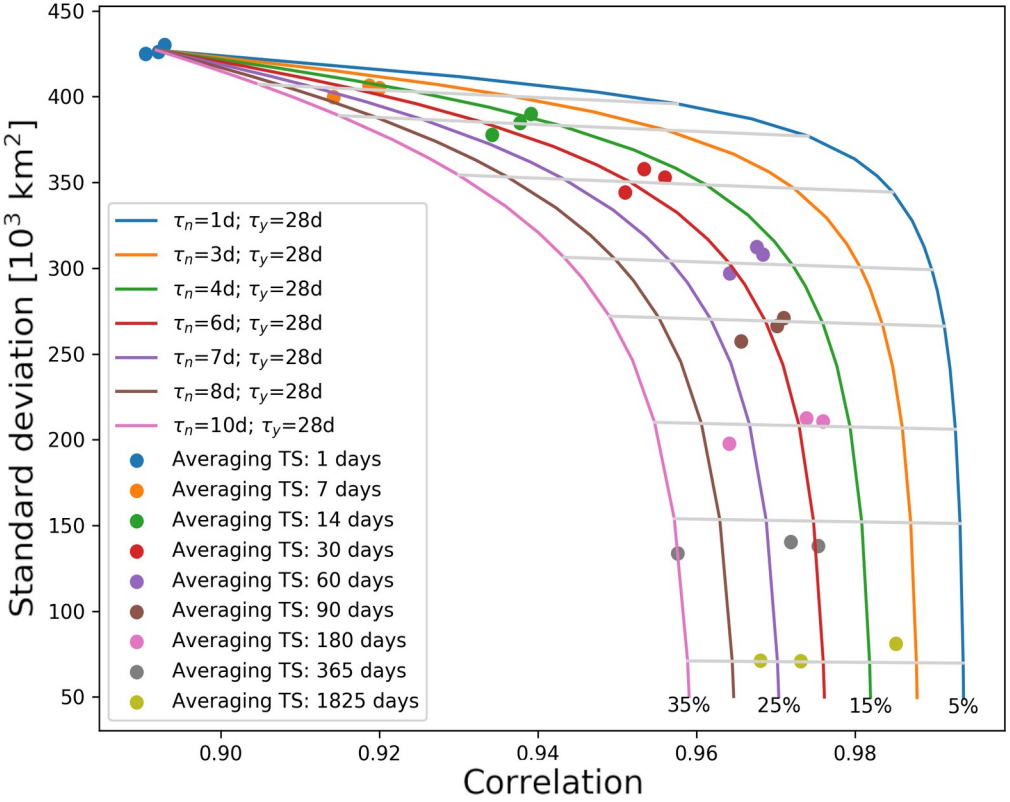

- Short averages: increase in inter-product correlation - Long averages: decrease in STD
- Best fit for statistical model with error correlation of 6 days and SIA correlation of 28 days
- Plan to use this with previous work on spatial correlations to propagate CCI SIC uncertainties to daily/weekly/monthly SIA and SIE uncertainties

Thank you

See also our poster