



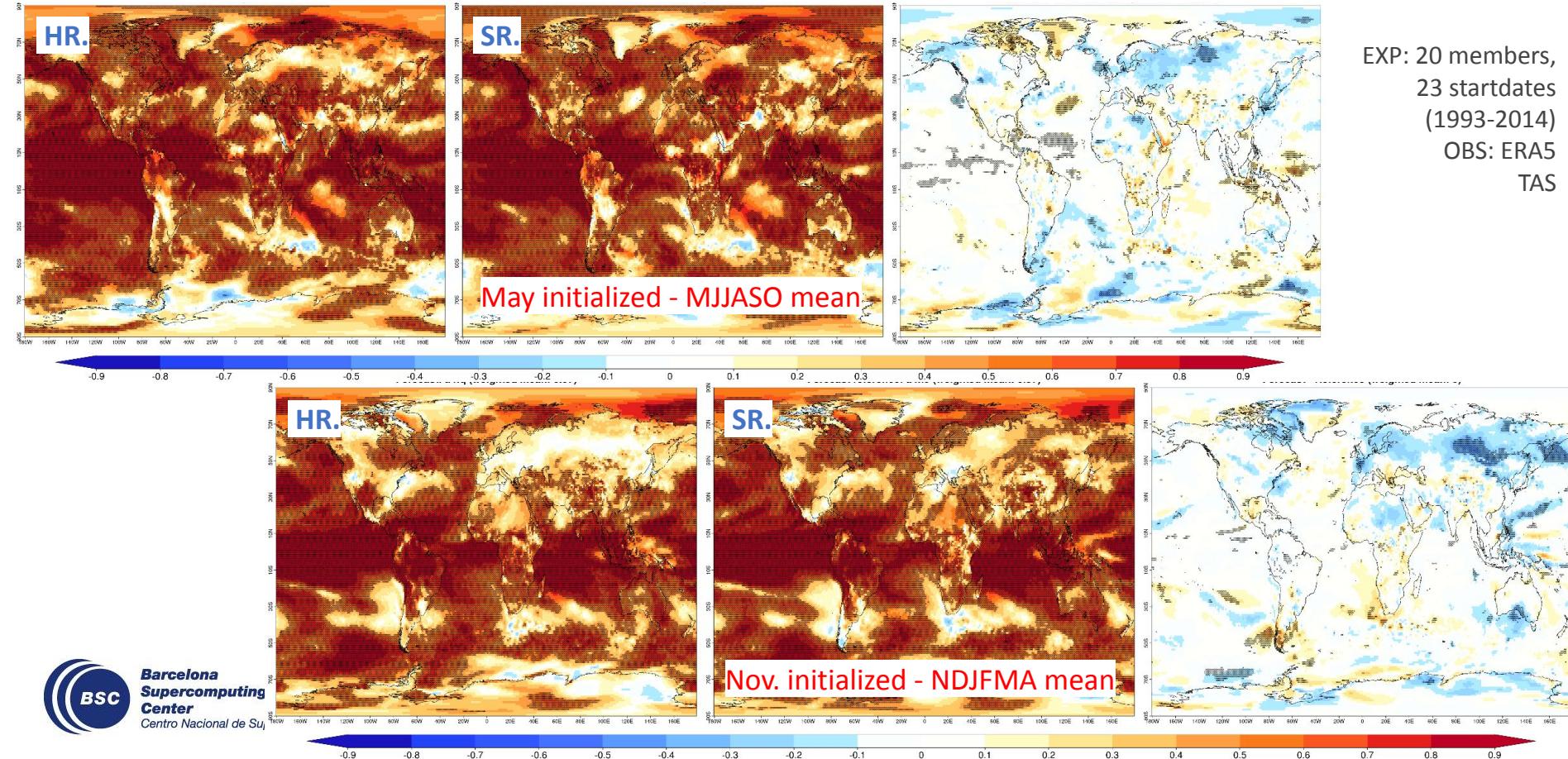
Forecast systems at High-Resolution using a tuned version of EC-Earth3

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Seasonal forecast - Impact of the horizontal resolution

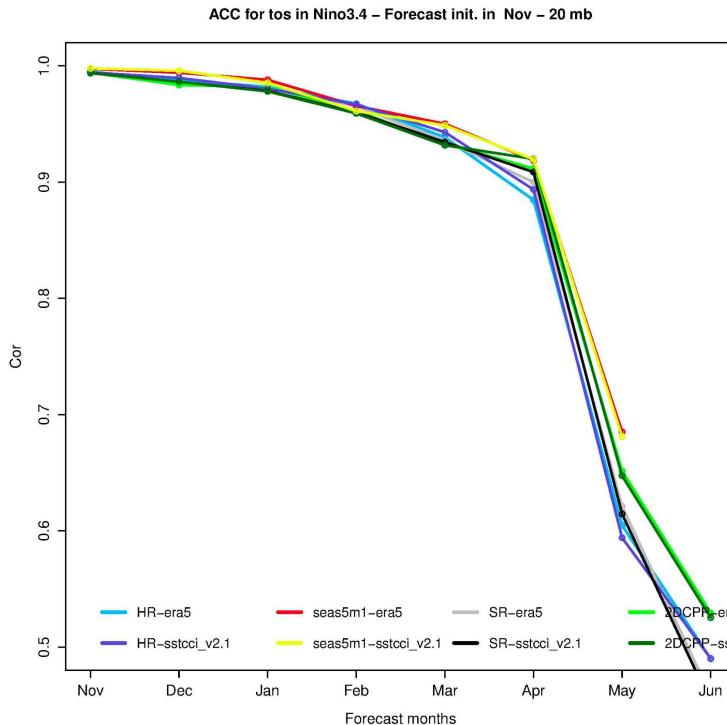
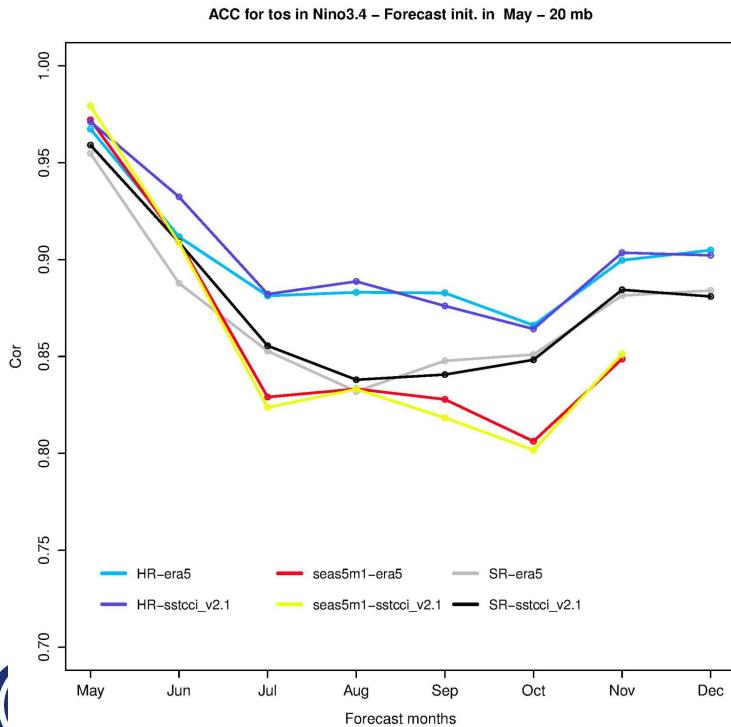


Seasonal forecast - Impact of the horizontal resolution

Anomaly correlation coefficients (ACC) for the Nino3.4 SST

EXP: 20 members,
23 startdates
(1993-2014)

OBS: ERA5, sstcci_v2.1
SST



HR forecast systems: Seasonal and multi-year

3) Seasonal Hincasts

Hindcast period: 1990-2015

Ensemble: 20 members

Forecast range: 8 forecasted
months

Initialization: May and November

4) Reduced multi-year system

Normal

1960-2020
(every yr)

10 members

10 forecast yrs

TOTAL (6100 yrs)

Reduced

1960-2020
(every 2nd yr)

5 members

2 forecast yrs

TOTAL (310 yrs)

currently in production