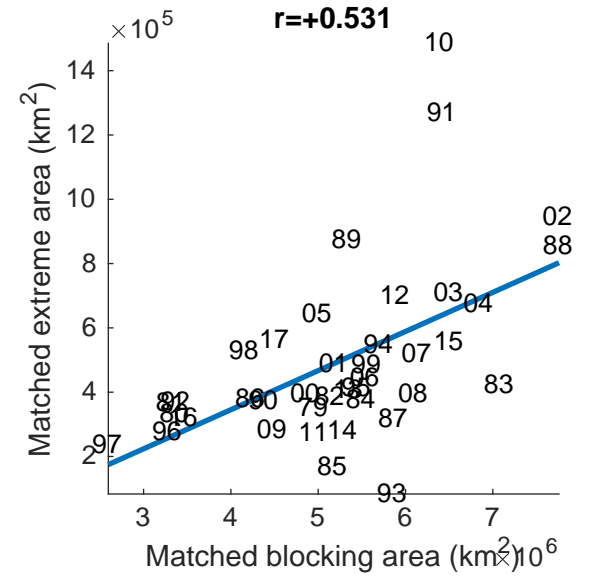
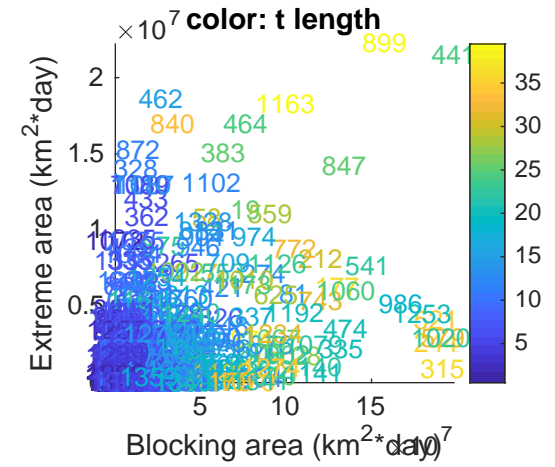
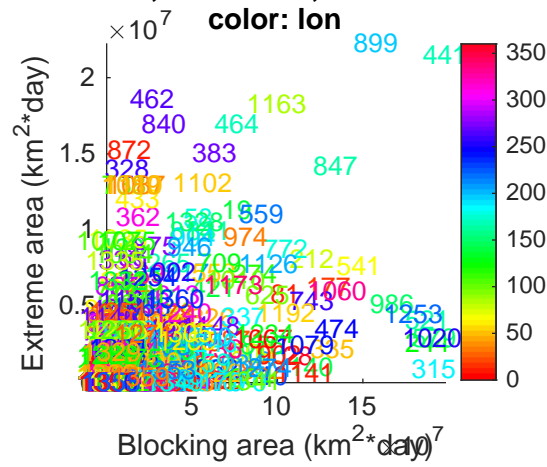
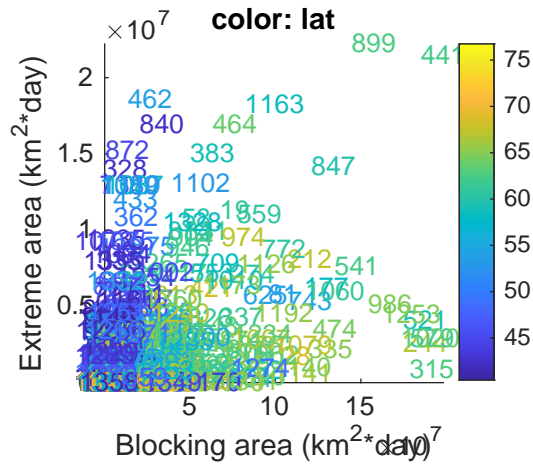
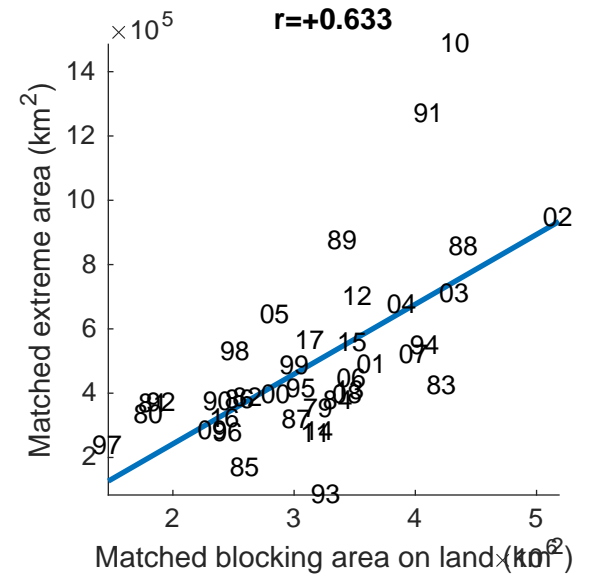
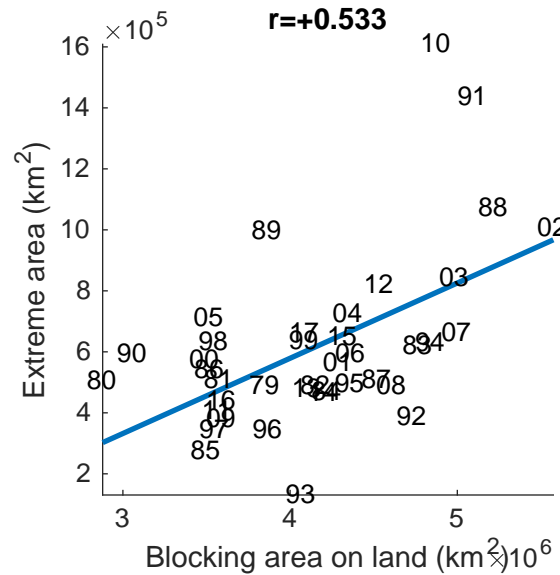
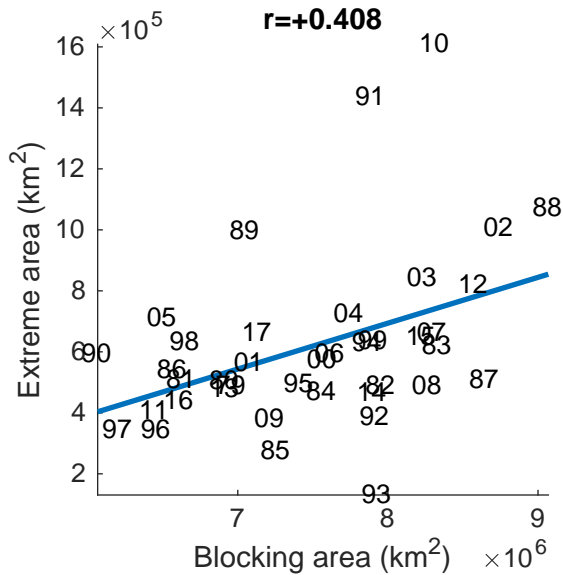
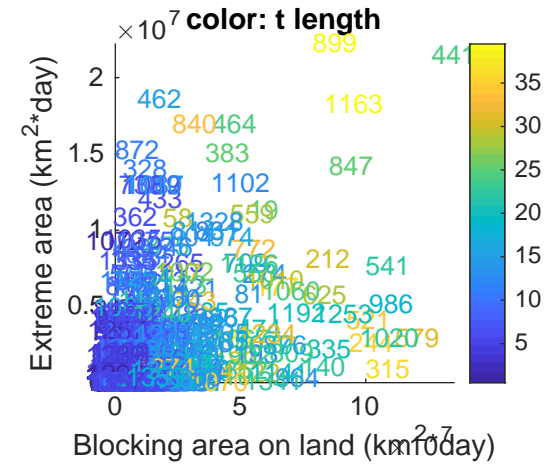
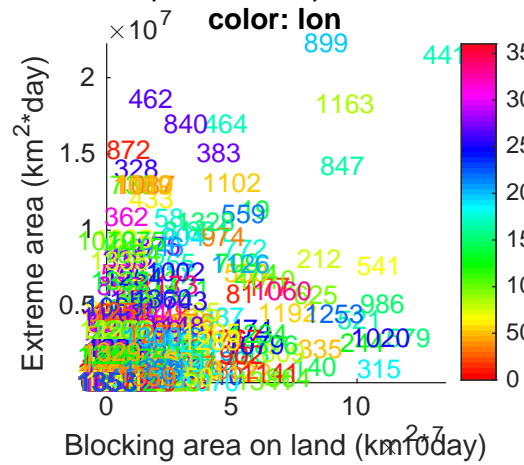
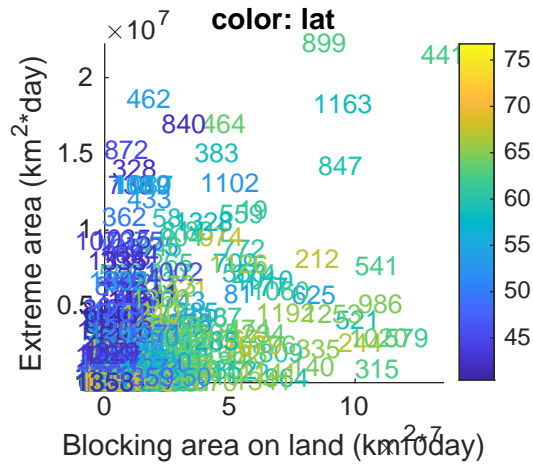


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth
hot, frac=0.806, r=+0.480

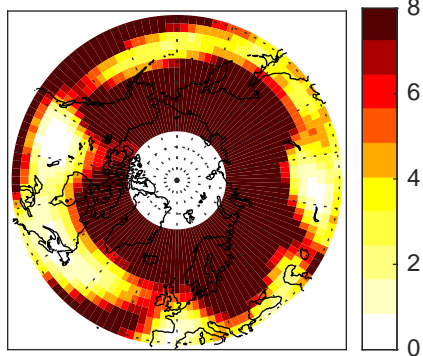


8a15: M13, Z500, 40-74N, D=5, dphi=3, smth
hot, frac=0.806, r=+0.538

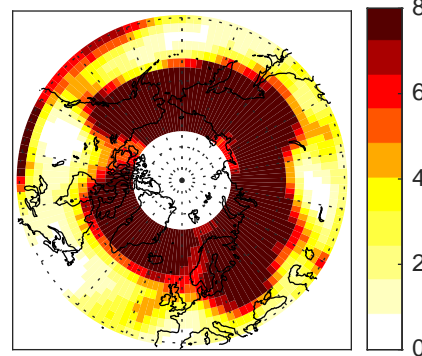


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth

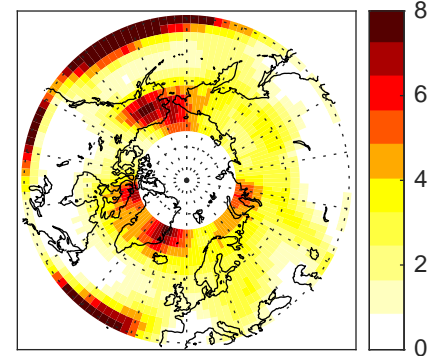
JJA blocking frequency (%)



matched blocking

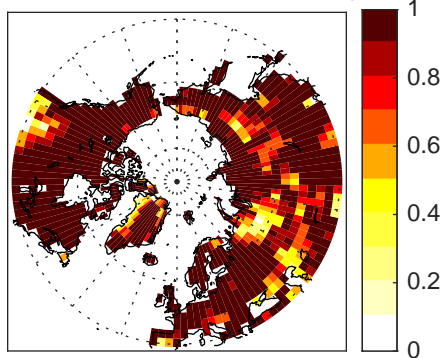


unmatched blocking

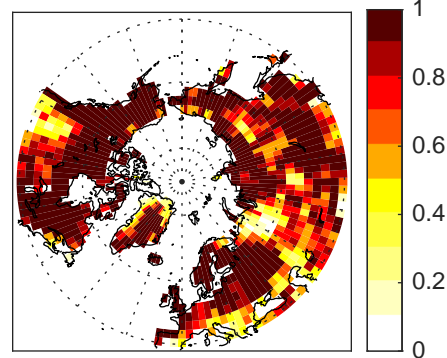


x919: Extreme, 15/15day*11yr, 2.3localstd 0K 40lat

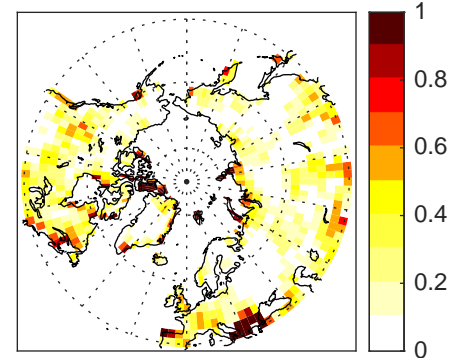
JJA extreme frequency (%)



matched extreme

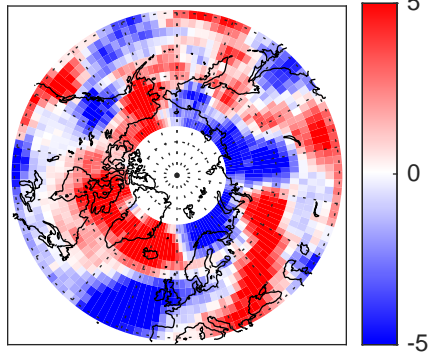


unmatched extreme

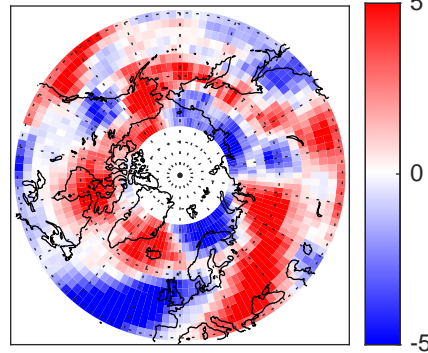


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth

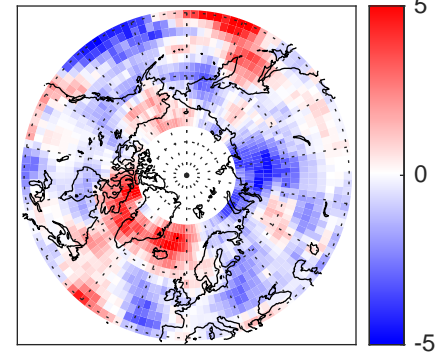
JJA blocking trends (%/30yr)



matched blocking trends

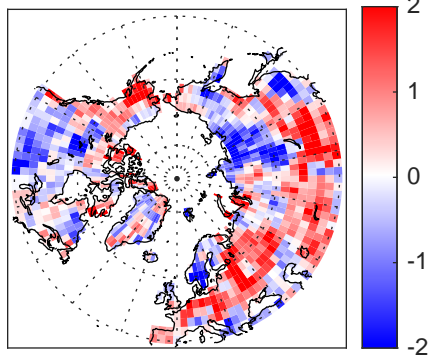


unmatched blocking trends

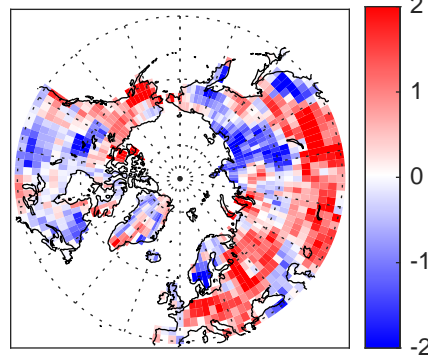


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth

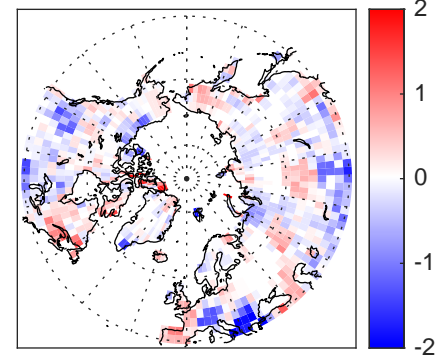
JJA extreme trends (%/30yr)

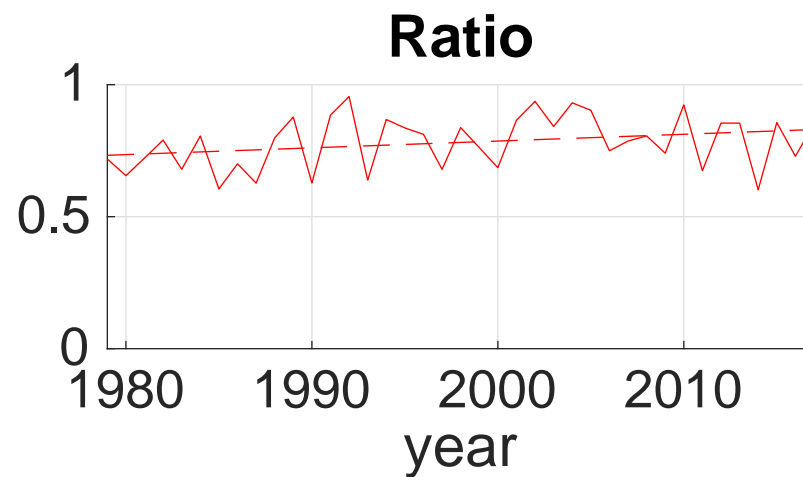
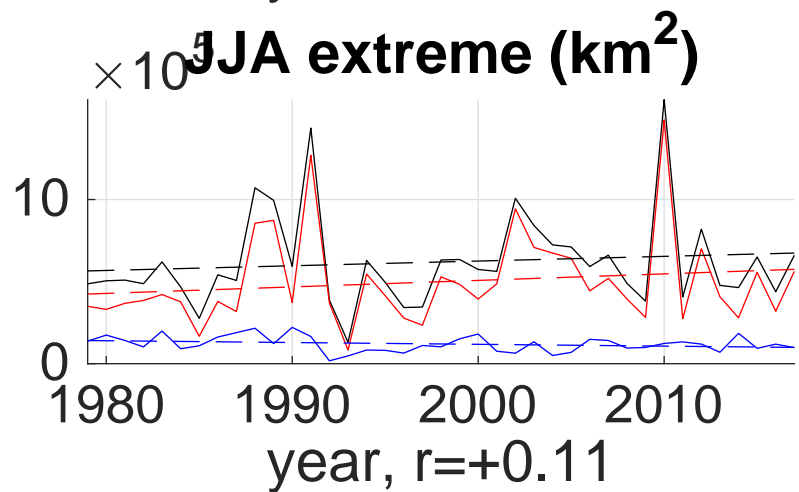
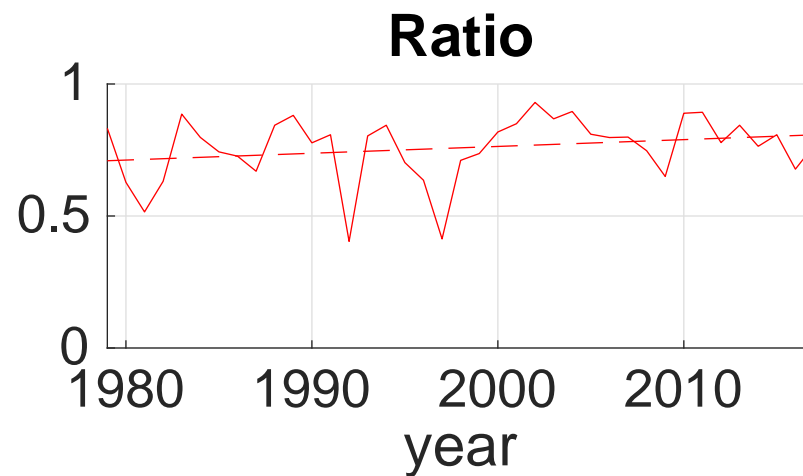
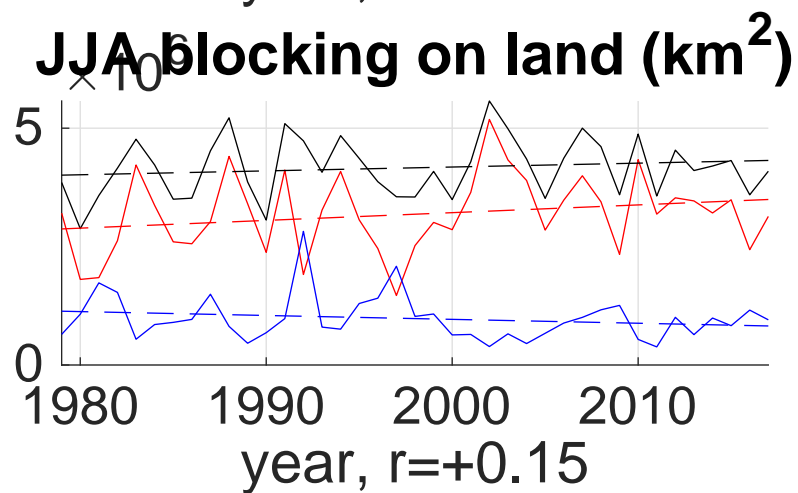
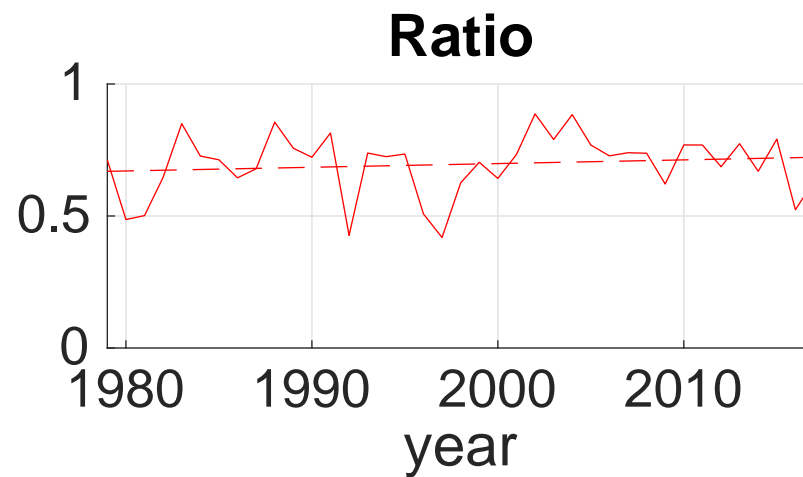
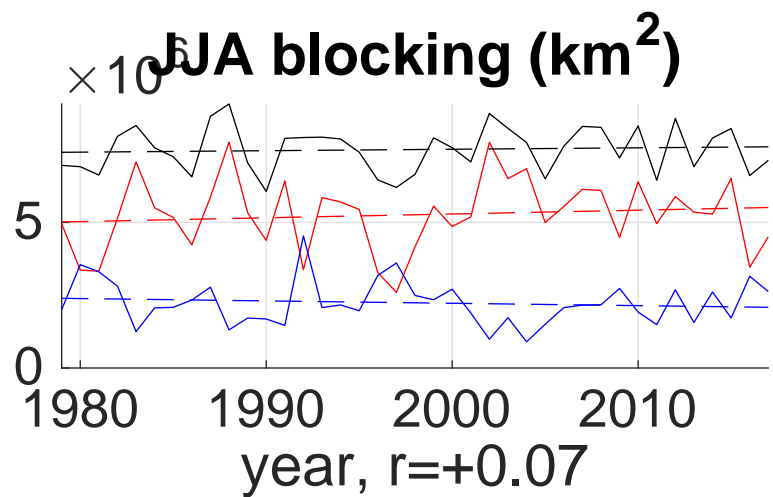


matched extreme trends

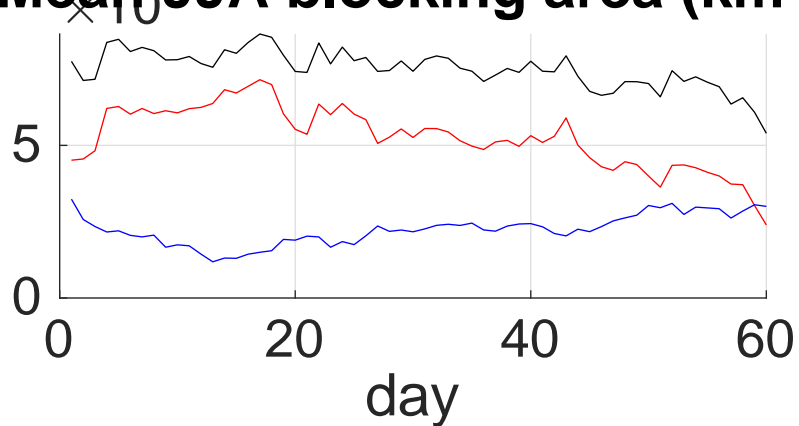


unmatched extreme trends

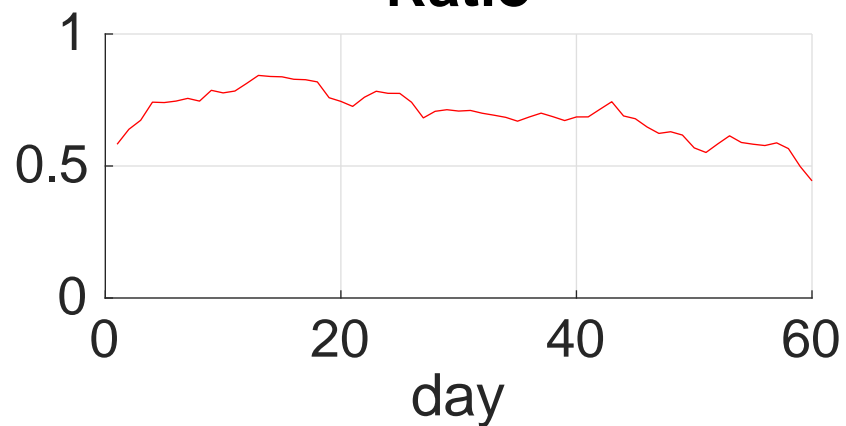




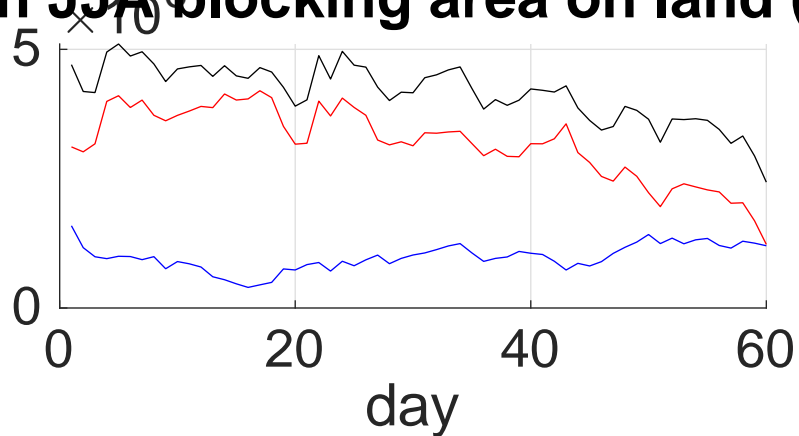
Mean JJA blocking area (km²)



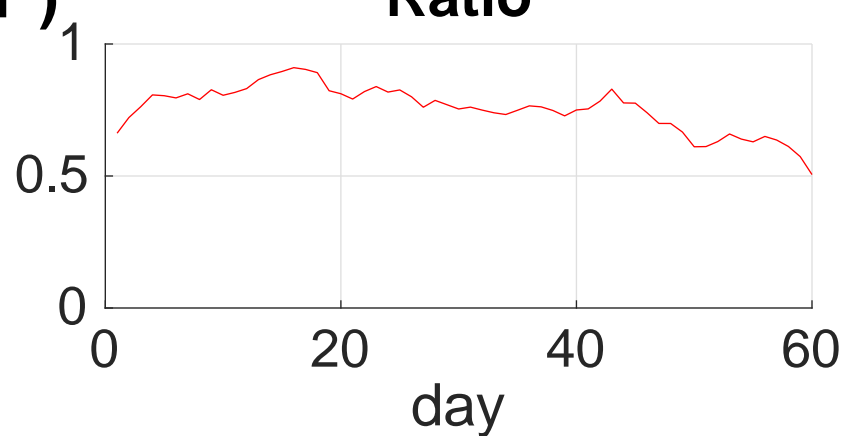
Ratio



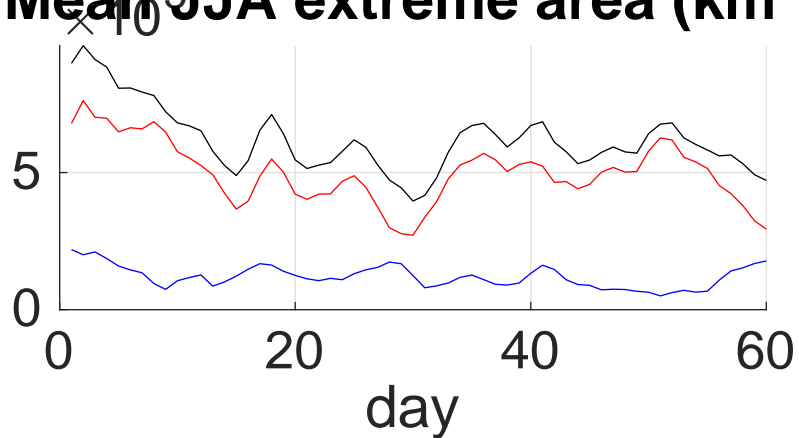
Mean JJA blocking area on land (km²)



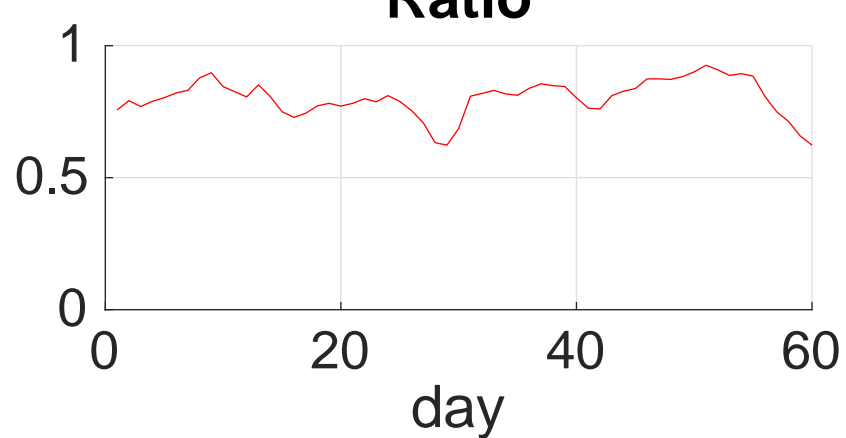
Ratio



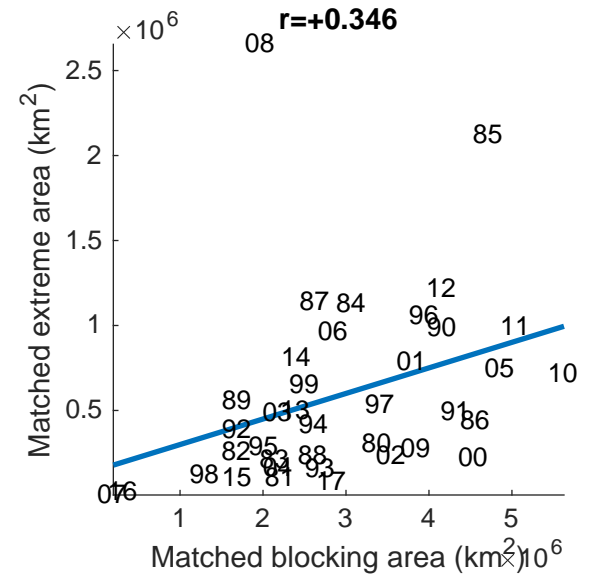
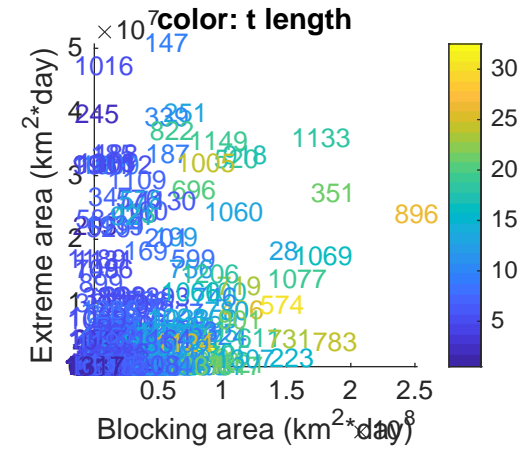
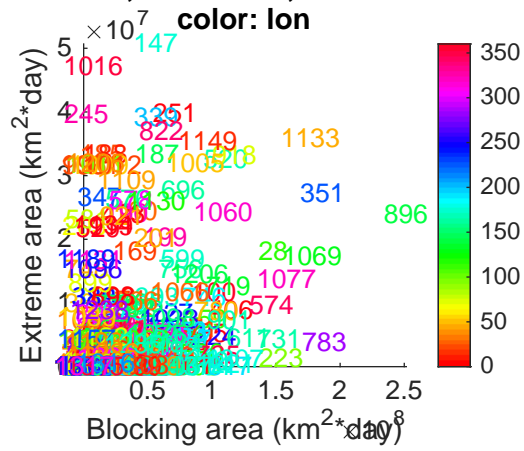
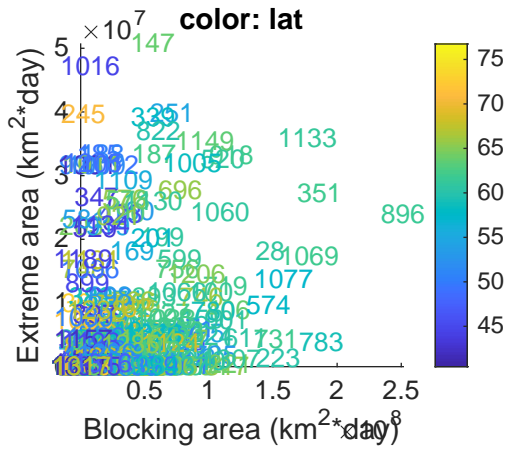
Mean JJA extreme area (km²)



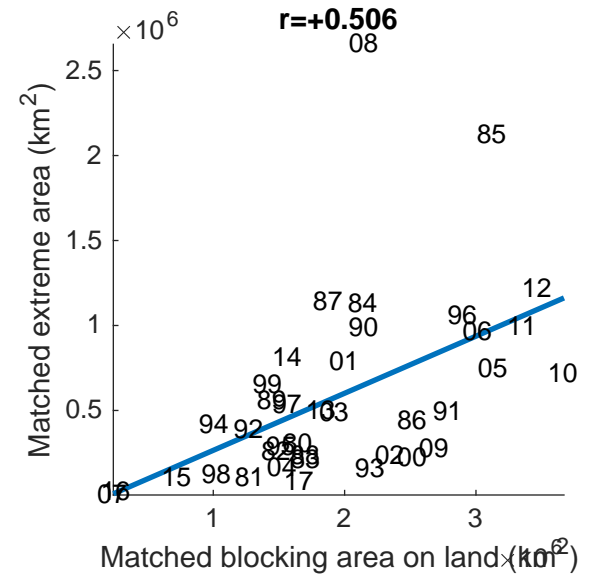
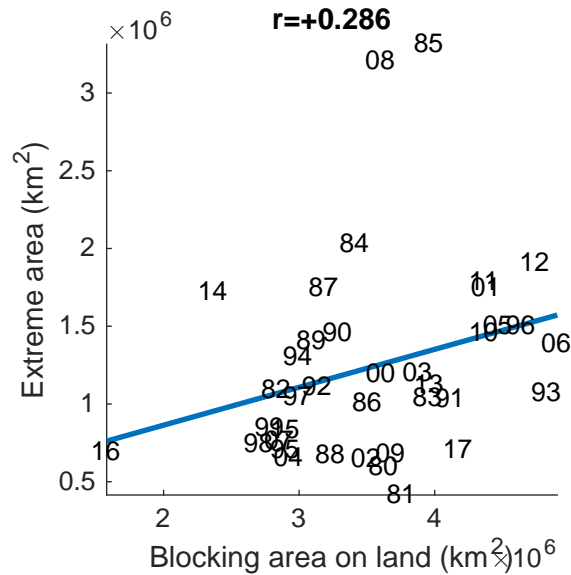
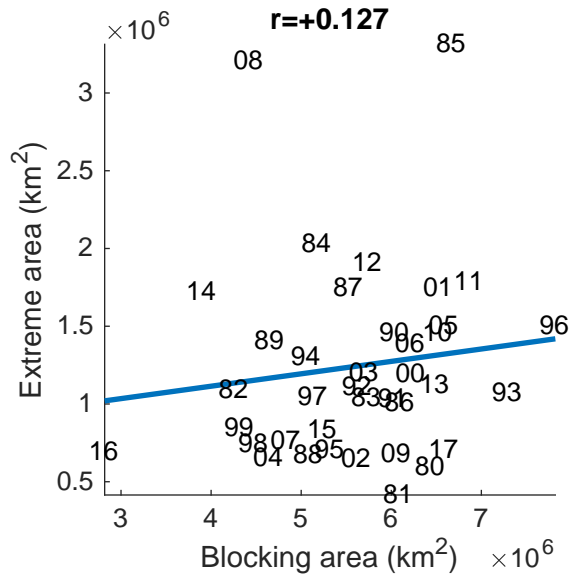
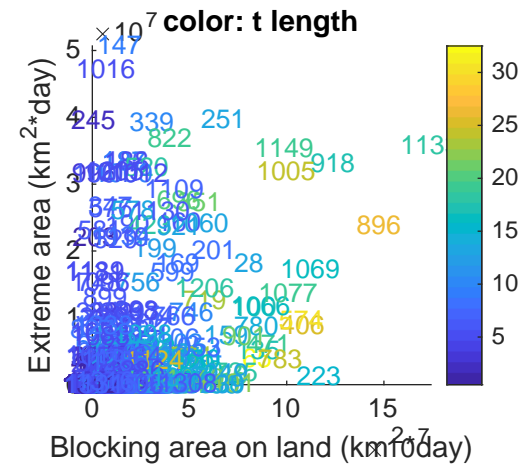
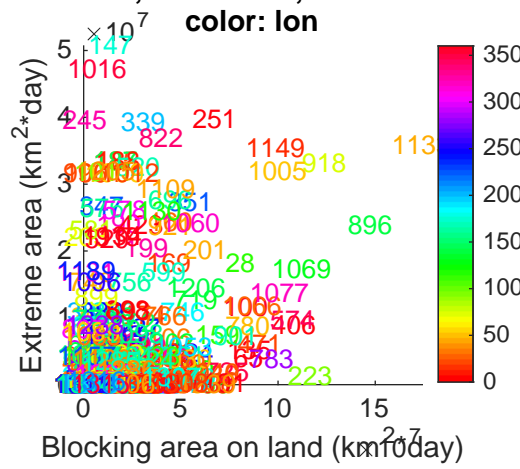
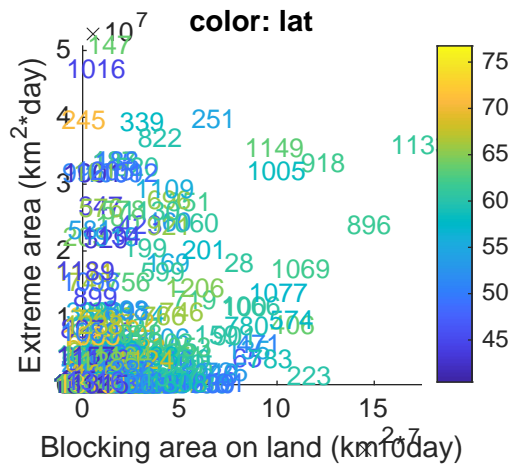
Ratio



**8a15: M13, Z500, 40-74N, D=5,dphi=3,smth
cold, frac=0.476, r=+0.412**

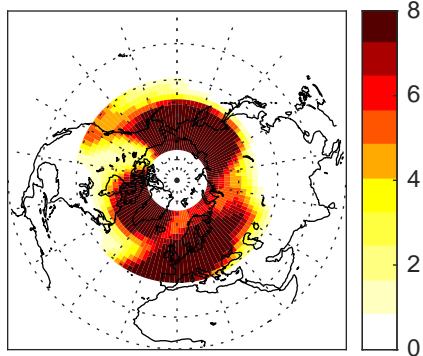


8a15: M13, Z500, 40-74N, D=5, dphi=3, smth
cold, frac=0.476, r=+0.432

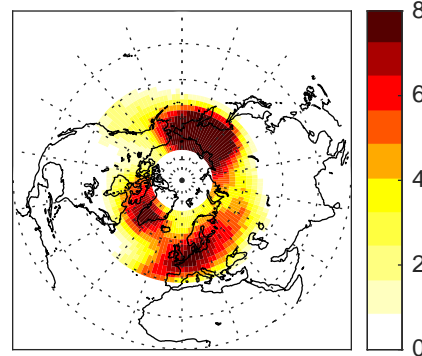


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth

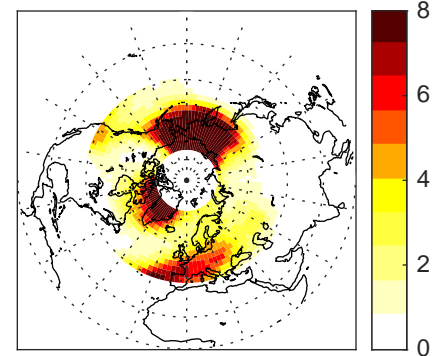
DJF blocking frequency (%)



matched blocking

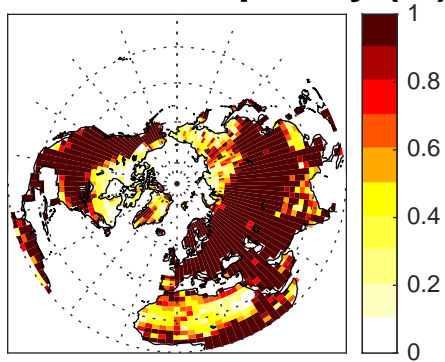


unmatched blocking

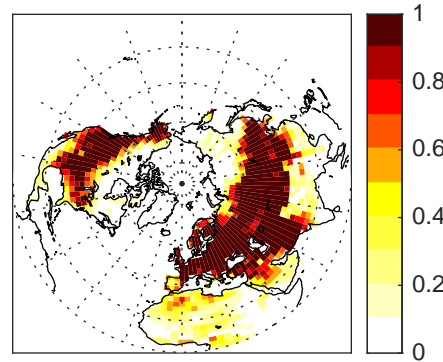


x919: Extreme, 15/15day*11yr, 2.3localstd 0K 40lat

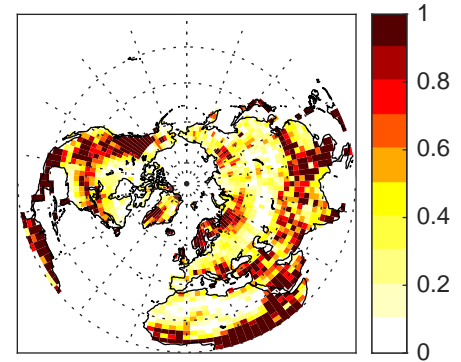
DJF extreme frequency (%)



matched extreme

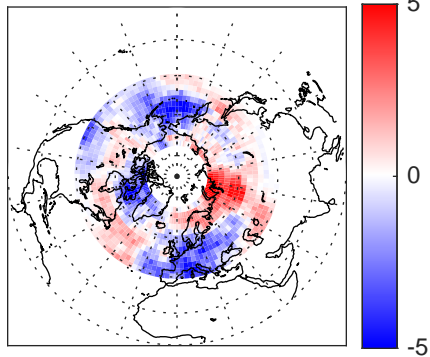


unmatched extreme

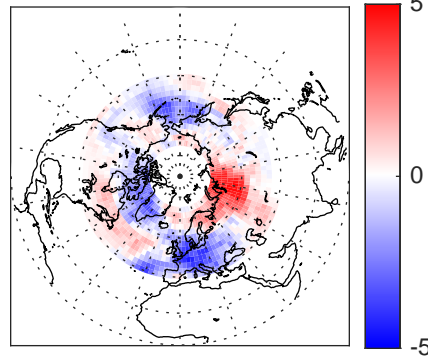


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth

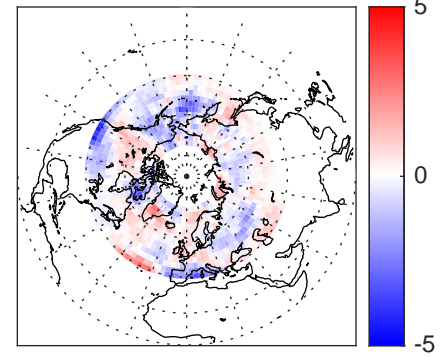
DJF blocking trends (%/30yr)



matched blocking trends

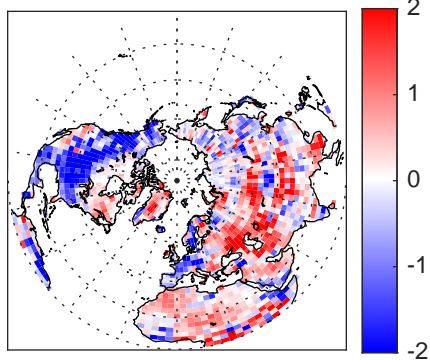


unmatched blocking trends

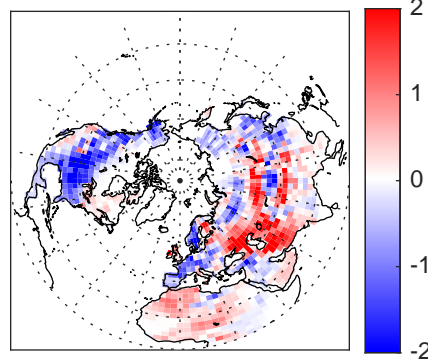


8a15: M13, Z500, 40-74N, D=5,dphi=3,smth

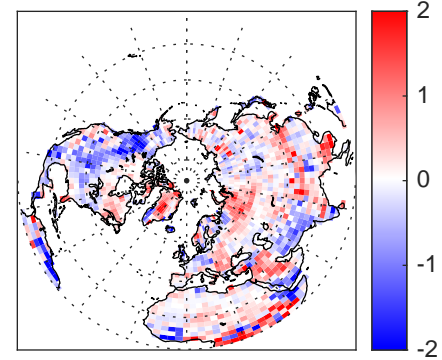
DJF extreme trends (%/30yr)

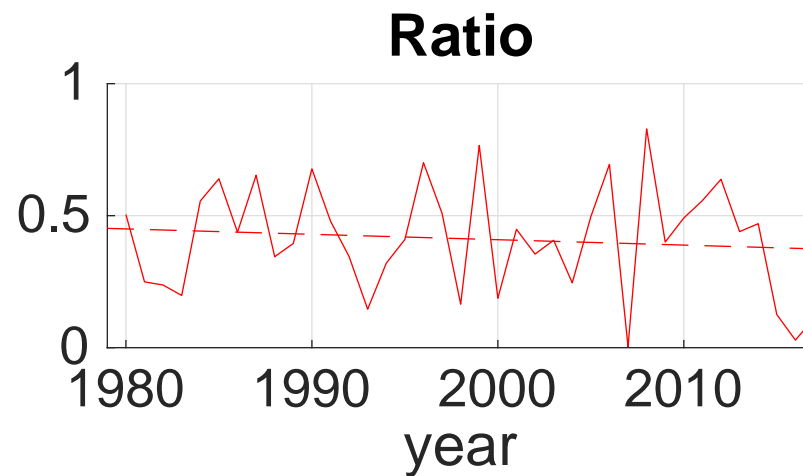
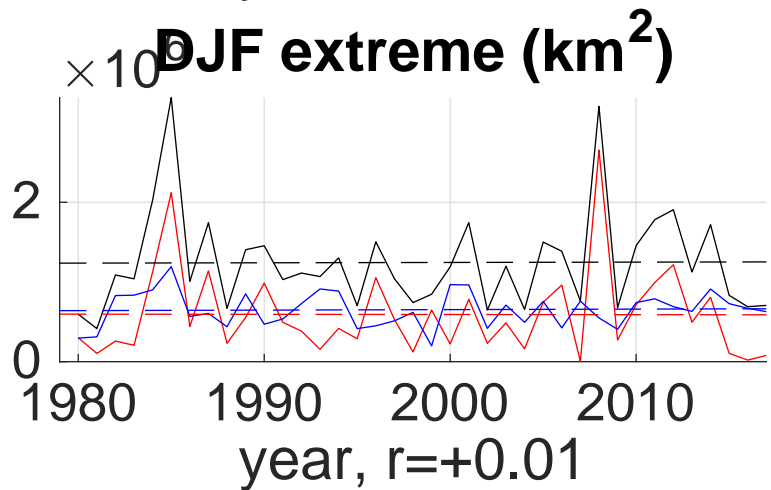
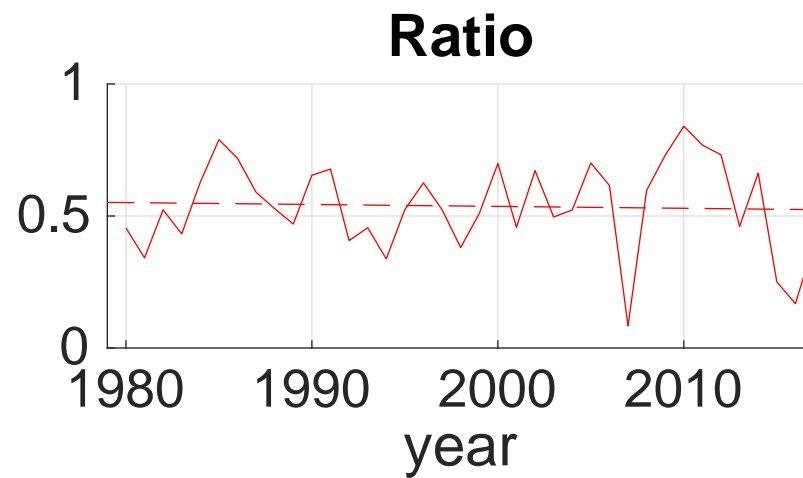
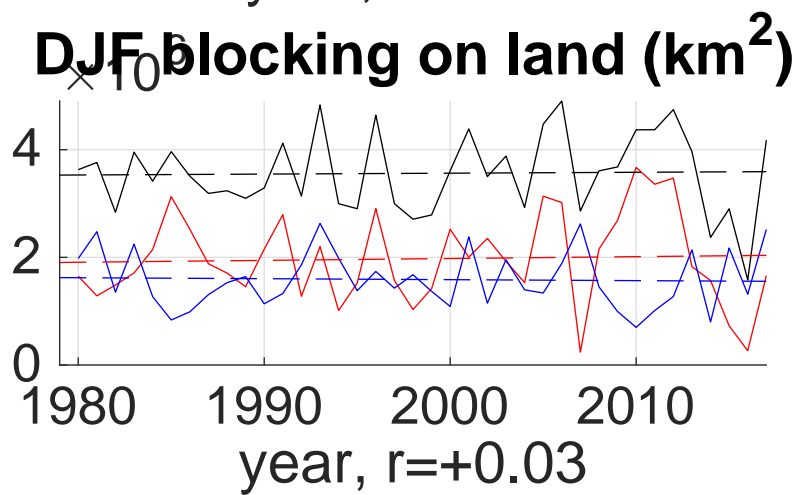
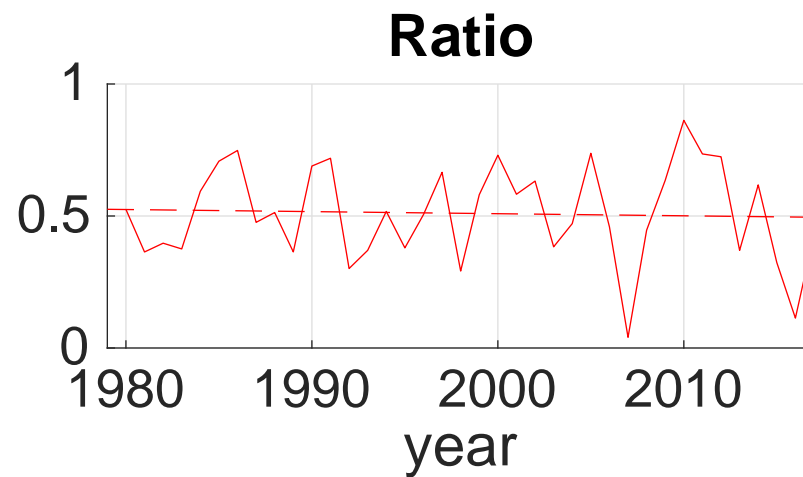
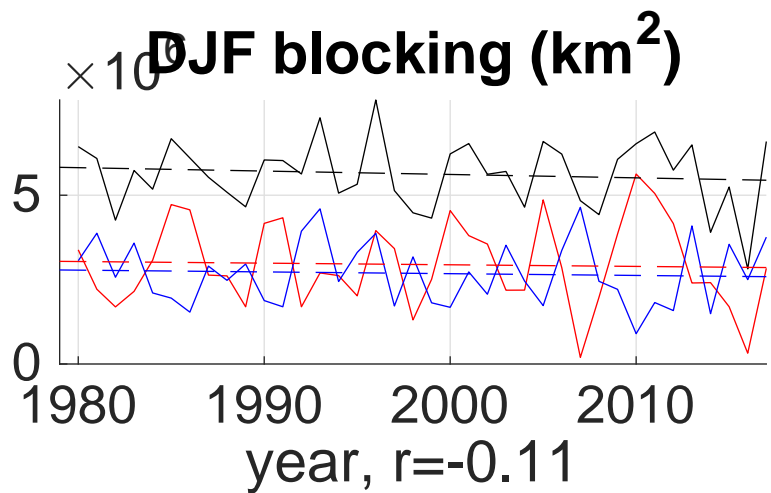


matched extreme trends

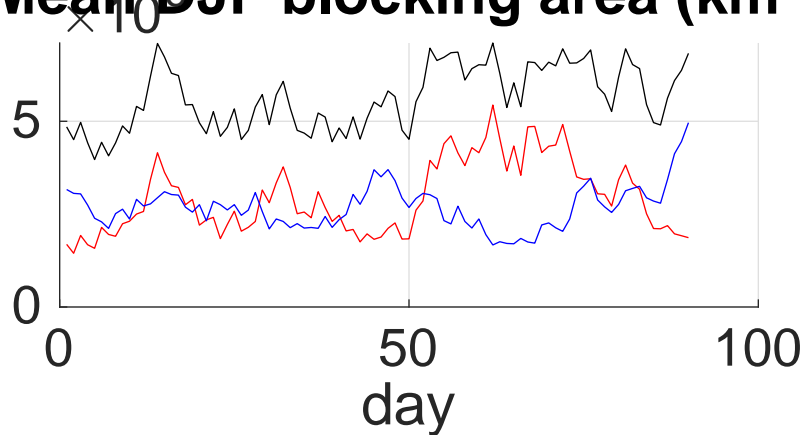


unmatched extreme trends

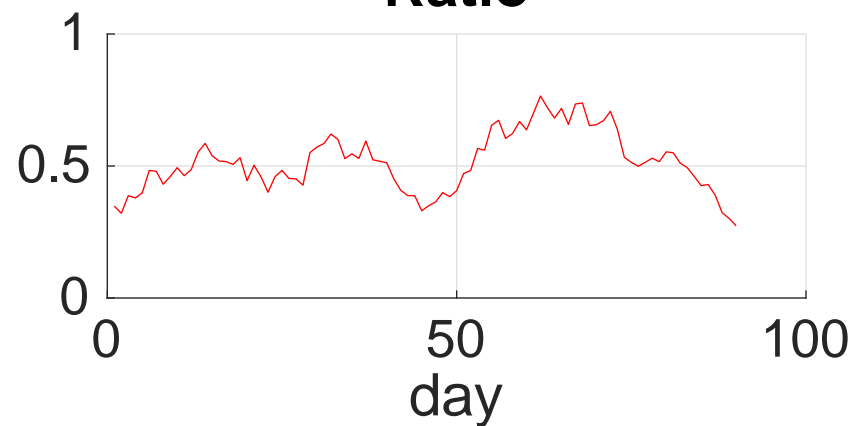




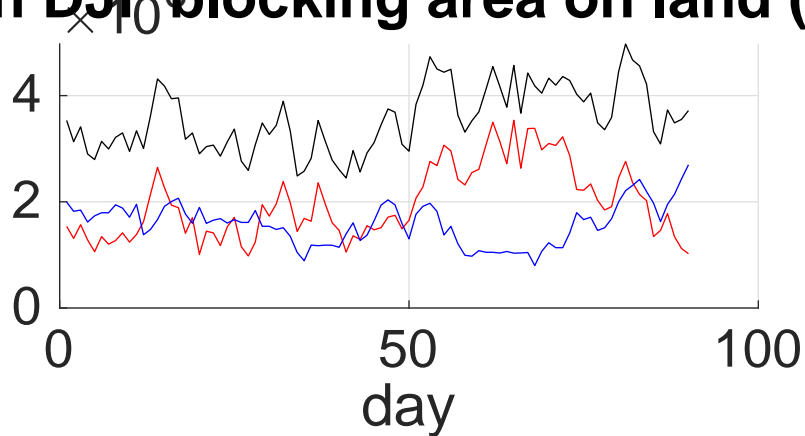
Mean DJF blocking area (km²)



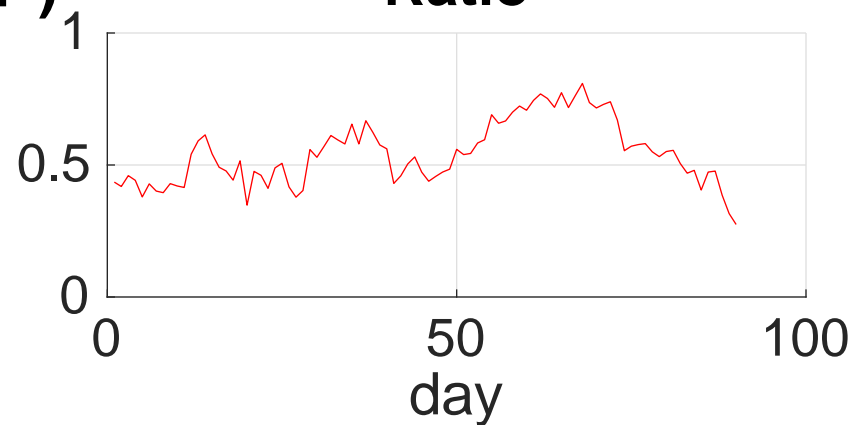
Ratio



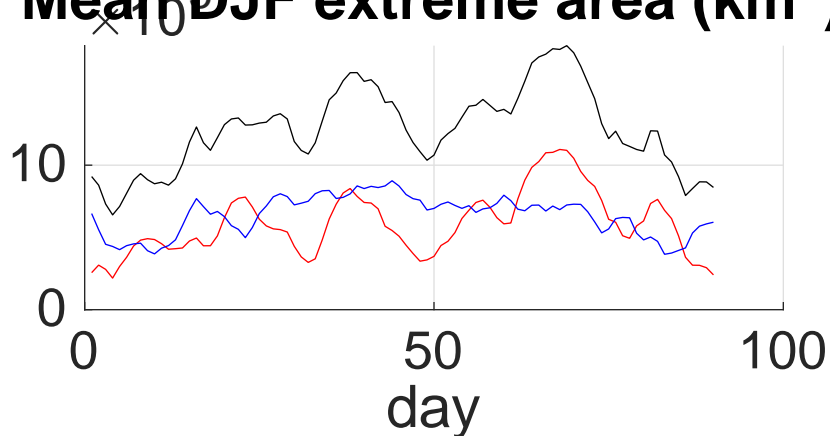
Mean DJF blocking area on land (km²)



Ratio



Mean DJF extreme area (km²)



Ratio

