



**Total interest** comprises such factors as the separation of the object centroid, minimum edge separation, orientation angle relative to the grid axis, the ratio of the areas of the two objects, and the fraction of area common to both objects.

**Total interest** is defined for each pair of forecast and observed objects identified at a particular time.

Reference:

Davis, C.A., B.G. Brown, and R.G. Bullock, 2006: Object-based verification of precipitation forecasts, Part I: Methodology and application to mesoscale rain areas. Mon. Wea. Rev., 134, 1772-1784

## Case study 2017.05.04 - 2017.05.05, run 00 24h precipitation



**OPERA** 



### COSMO PL 7



Case study 2017.05.04 - 2017.05.05, run 00 24h precipitation, threshold>=5mm



**OPERA** 

#### COSMO PL 7



5 radar features identified

3 COSMO PL 7 features identified

Case study 2017.05.04 - 2017.05.05, run 00 24h precipitation

**OPERA** 



COSMO PL 7



Selected feature pairings based on total interest

obs featuremod featuretotal interest110.8220.7



# Case study 2007.09.25.06, 6h precipitation



VERA



### COSMO 2



## Case study



2007.09.25.06, 6h precipitation, threshold>=5mm



2 obs features identified

4 COSMO2 features identified

## Case study



2007.09.25.06, 6h precipitation, threshold>=5mm







Selected feature pairings based on total interest

obs feature mod feature total interest 1 1 0.898