



**Skill Scores for Pe(CRPS) and Ignorance (Ign) score, amongst others. Their strengths and weaknesses are contrasted under a variety of situations. The aim is to restrict the number of skill scores considered, reduce the use of misleading scores and identify independent evidence for the use of each score, based on a set of prede ned desirable" characteristics.**

#### Desirable characteristics of a skill score

Propriety is a well known desirable characteristic of skill scores. Any score that is proper will always reward a forecast that reflects the forecasters true judgement. Locality, in which a forecast is rewarded solely on the probability assigned to the outcome, and is a property of the Ignorance score alone, is also debated as a desirable property in many cases. It is also proposed that any score considered to be a reliable measure of forecast quality, should also be robust against changes to the following forecast/verification properties:

Sampling error in verification data (T1)

Ensemble size (T2)

Ensemble (forecast) sampling error (T3)

Amount of verification data (T4)