

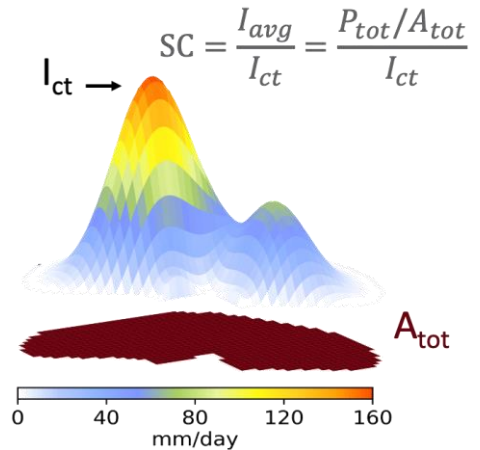
Object-Based Evaluation of Downscaled Precipitation Products Over CONUS – Xiaodong Chen, Ruby Leung, and Paul Ullrich

Daily precipitation datasets

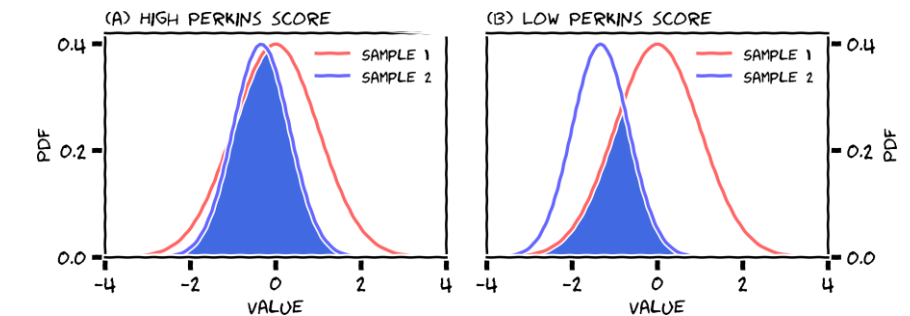
Dataset	Spatial resolution	Spatial coverage	Historical period
Dynamically downscaled (DD) dataset			
PNNL6	6km	Western US	1981-2020
ADDA (v1)	12km	CONUS	1995-2003
TGW12	12km	CONUS	1981-2020
CONUS1	4km	CONUS	2000.10-2013.09
CONUS2	4km	CONUS	1995-2015
CONUS404	4km	CONUS	1979.10-2021.09
Statistically downscaled (SD) dataset			
LOCA	~4km	CONUS	1981-2014 (28 GCMs)
MACA	~4km	CONUS	1981-2005 (17 GCMs)
STAR-ESDM	~4km	CONUS	1981-2020 (24 GCMs)
Observation (ground truth)			
PRISM	~4km	CONUS	1981-2020

(Poster Wed-116)

Precipitation object metrics

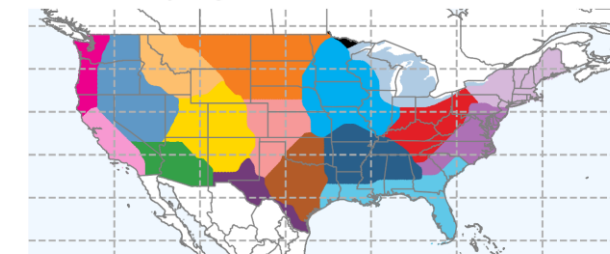


Perkins score



Performance evaluated across US regions

(a) Bukovsky regions over CONUS



(b) Bukovsky regions in hexagon

