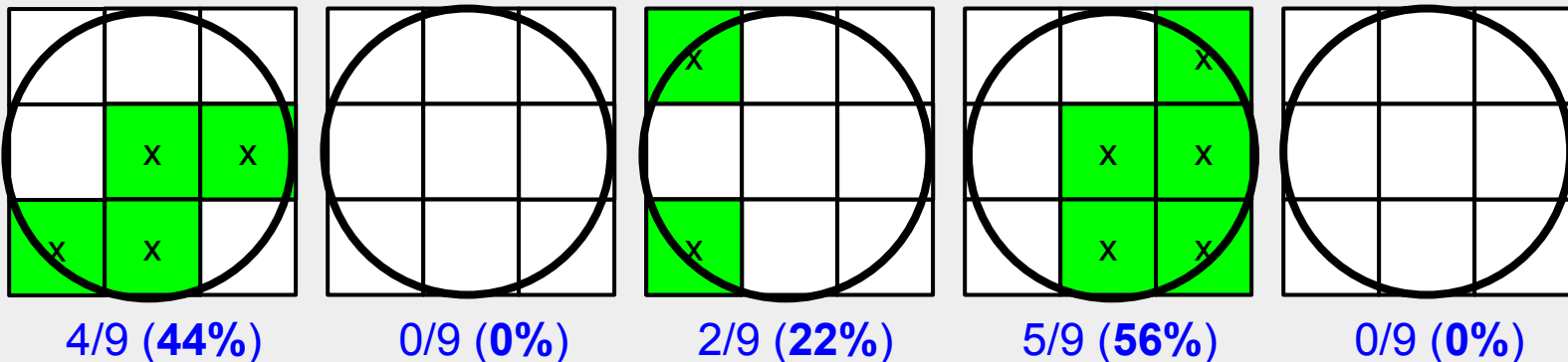


# Ensemble Agreement Scale

## Quick Reference Guide

Ensemble Agreement Scale (EAS) uses **fractional coverage** of events in the search area:



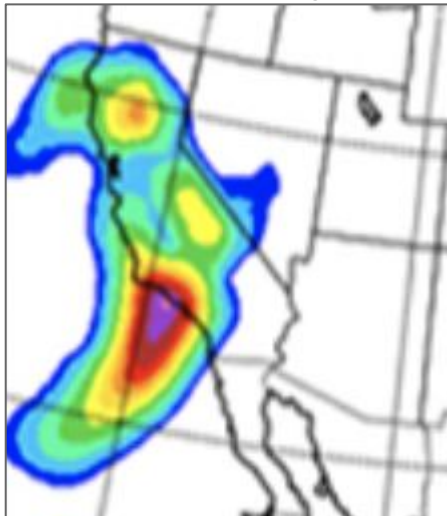
This 5-member ensemble shows poor agreement on fractional coverage at this search radius.

In the calculation of EAS, various **search area radii (r)** are tested at a grid point looking for a **similar fractional coverage (FC)** of events among the ensemble members. This process is then repeated at every grid point. Example using 5 ensemble members:

<b>✗ Test 1</b> (r= 6 km)	<b>✗ Test 2</b> (r= 12 km)	<b>✓ Test 3</b> (r= 24 km)
Member 1= 44% FC	Mem 1= 35% FC	Mem 1= 28% FC
Member 2= 0% FC	Mem 2= 11% FC	Mem 2= 20% FC
Member 3 = 22% FC	Mem 3= 42% FC	Mem 3= 26% FC
Member 4 = 56% FC	Mem 4= 3% FC	Mem 4= 22% FC
Member 5 = 0% FC	Mem 5= 26% FC	Mem 5= 24% FC

EAS is a measure of **ensemble spatial agreement**, and is used to retain high spatial resolution of probabilities in areas where ensemble spatial agreement is high, such as areas of terrain forcing or well-modeled large-scale precipitation systems.

Smoothed point probabilities of high QPF



Probabilities of high QPF using **EAS** technique

