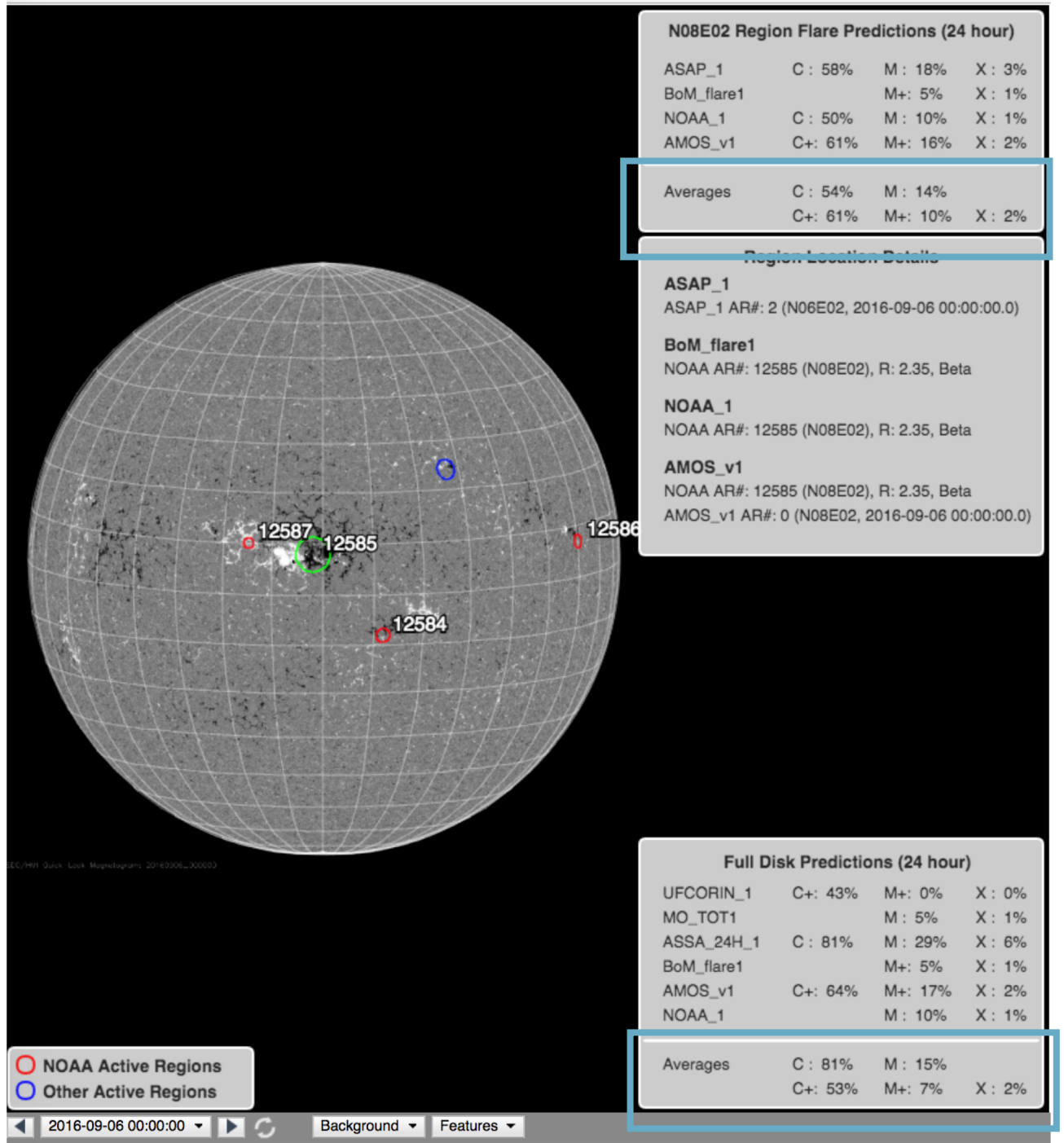
Solar Flare Scoreboard



N08E02 Region Flare Predictions (24 hour)

ASAP_1	C : 58%	M : 18%	X : 3%
BoM_flare1		M+: 5%	X : 1%
NOAA_1	C : 50%	M : 10%	X : 1%
AMOS_v1	C+: 61%	M+: 16%	X : 2%
Averages	C : 54%	M : 14%	
	C+: 61%	M+: 10%	X : 2%

Region Location Details

ASAP_1
ASAP_1 AR#: 2 (N06E02, 2016-09-06 00:00:00.0)

BoM_flare1
NOAA AR#: 12585 (N08E02), R: 2.35, Beta

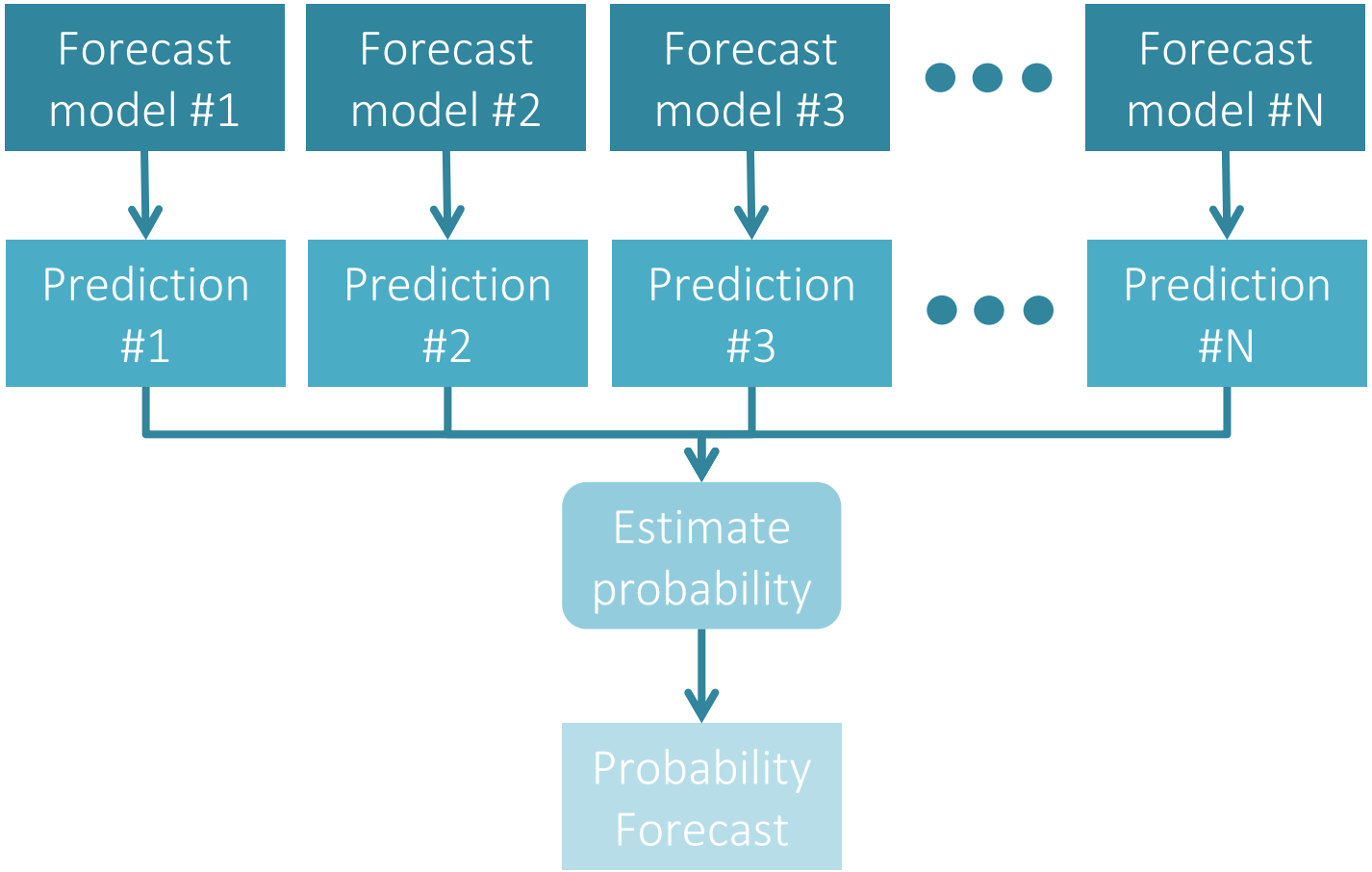
NOAA_1
NOAA AR#: 12585 (N08E02), R: 2.35, Beta

AMOS_v1
NOAA AR#: 12585 (N08E02), R: 2.35, Beta
AMOS_v1 AR#: 0 (N08E02, 2016-09-06 00:00:00.0)

Full Disk Predictions (24 hour)

UFCORIN_1	C+: 43%	M+: 0%	X : 0%
MO_TOT1		M : 5%	X : 1%
ASSA_24H_1	C : 81%	M : 29%	X : 6%
BoM_flare1		M+: 5%	X : 1%
AMOS_v1	C+: 64%	M+: 17%	X : 2%
NOAA_1		M : 10%	X : 1%
Averages	C : 81%	M : 15%	
	C+: 53%	M+: 7%	X : 2%

Ensembles



NASA CCMC
Flare Scoreboard

Trinity College Dublin
The University of Dublin
www.SolarMonitor.org

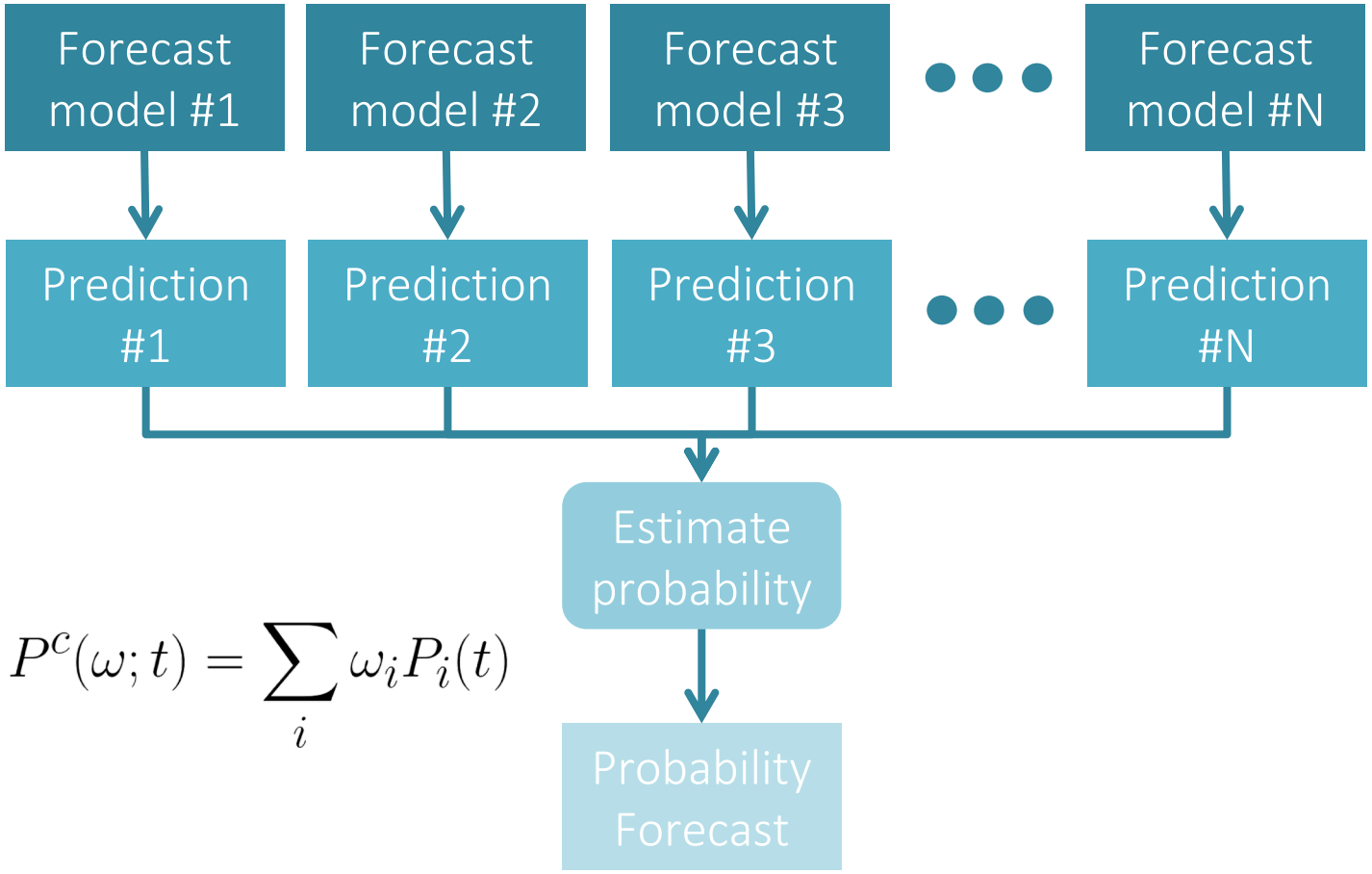
KOREAN SPACE WEATHER CENTER

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

UNIVERSITY of BRADFORD

Guerra, Murray, et al, in prep

Ensembles



$$P^c(\omega;t) = \sum_i \omega_i P_i(t)$$

Data set:

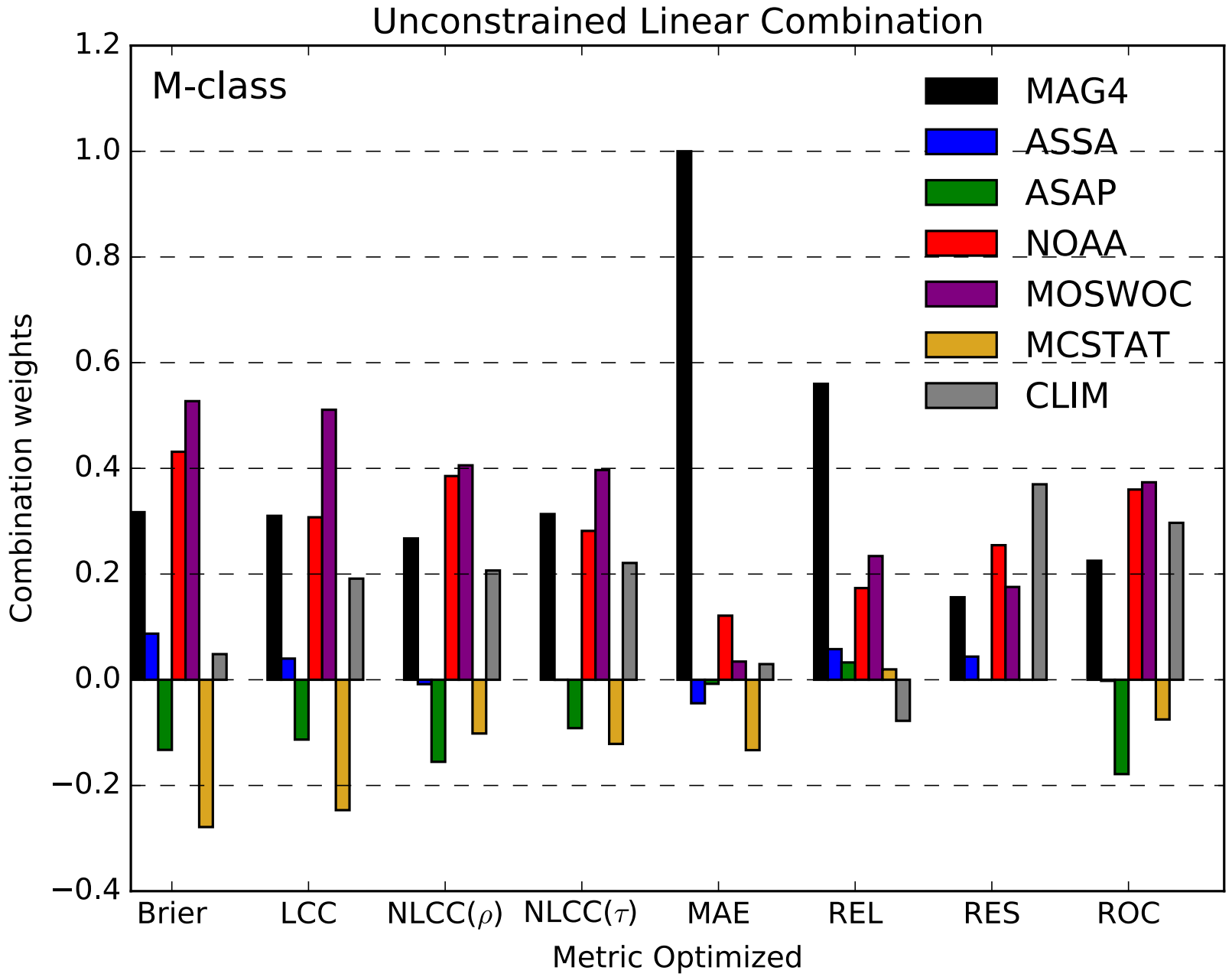
2014 – 2016

- 1096 days
- 24 hour forecasts

Flares:

- 348 M-class
  - 189 days
- 18 X-class
  - 17 days

Guerra, Murray, et al, in prep

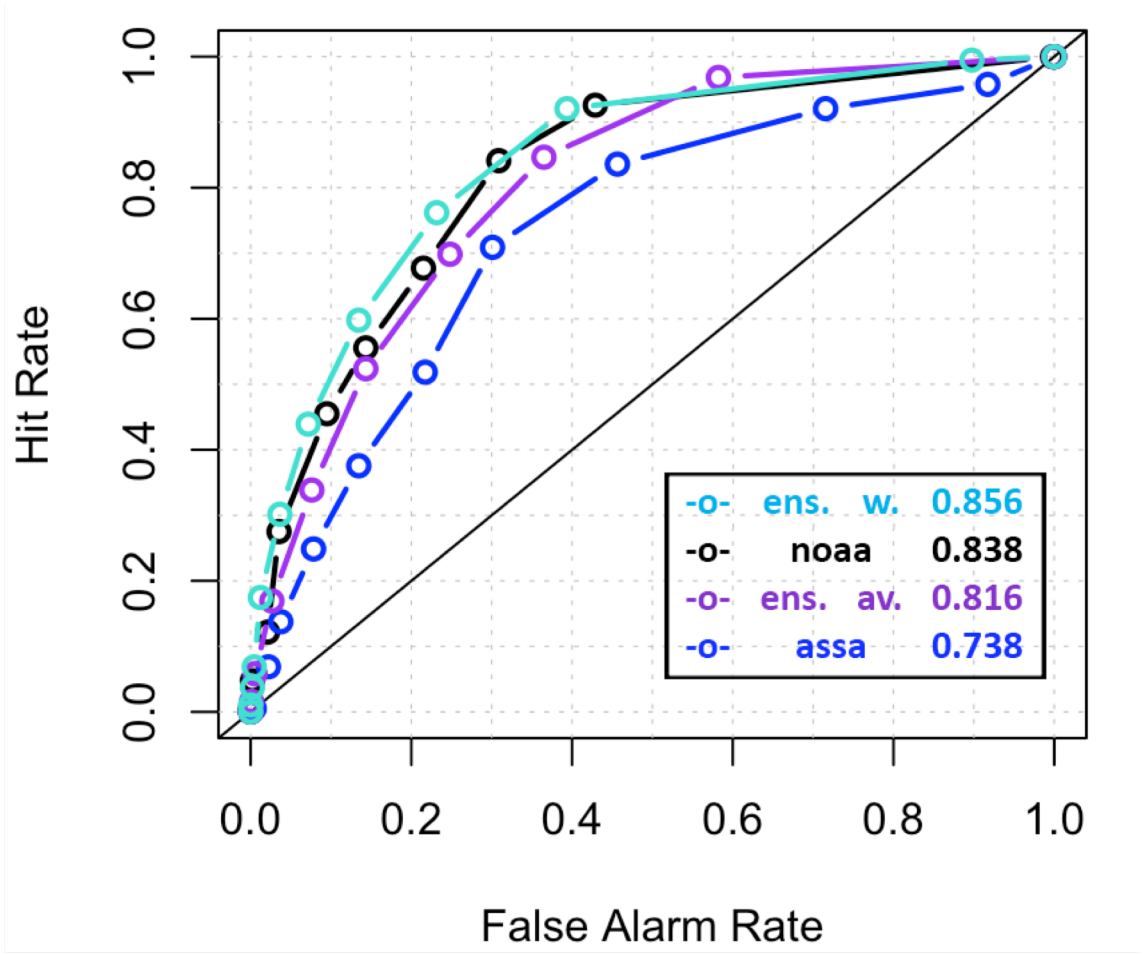


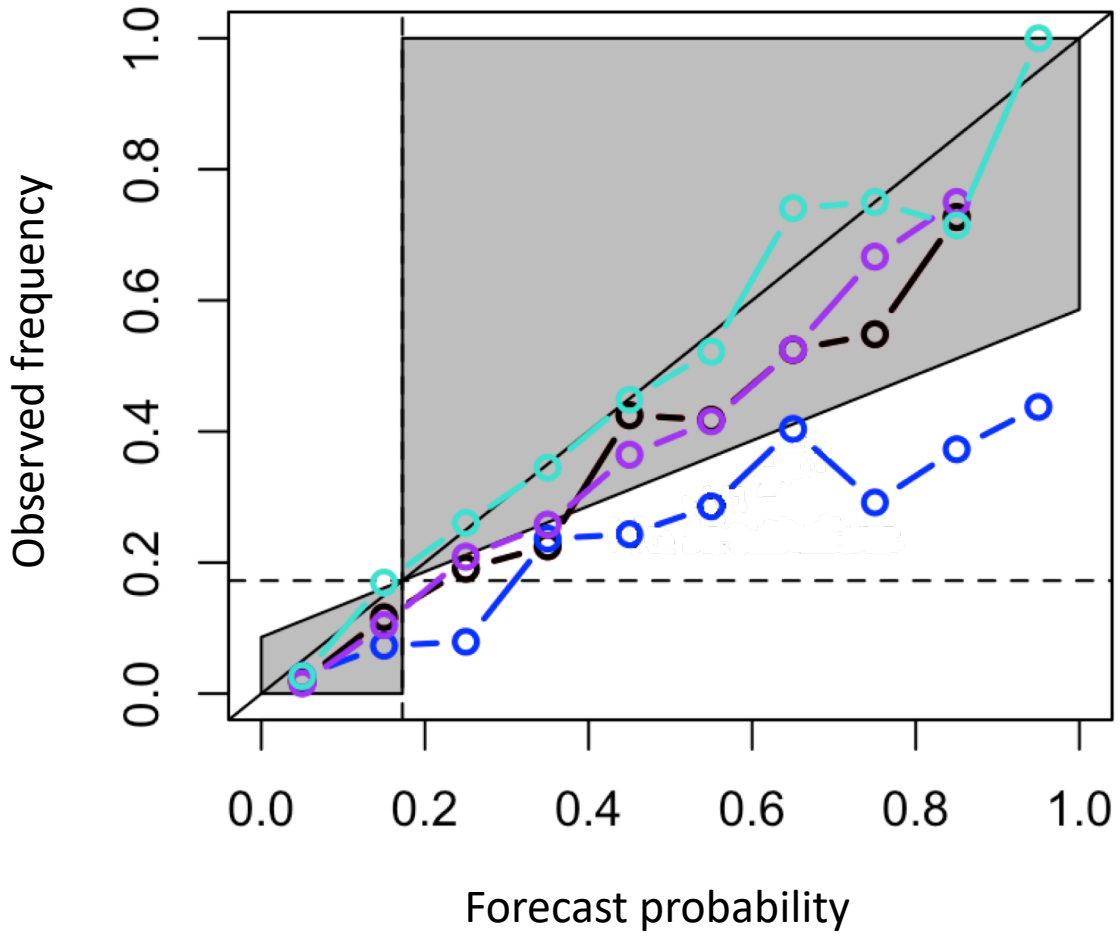
$$P^c(\omega;t) = \sum_i \omega_i P_i(t)$$

Weighted ensemble > average ensemble > machine

Brier score (unconstrained) is the top performing ensemble (averaged)

Guerra, Murray, et al, in prep





Guerra, Murray, et al, in prep