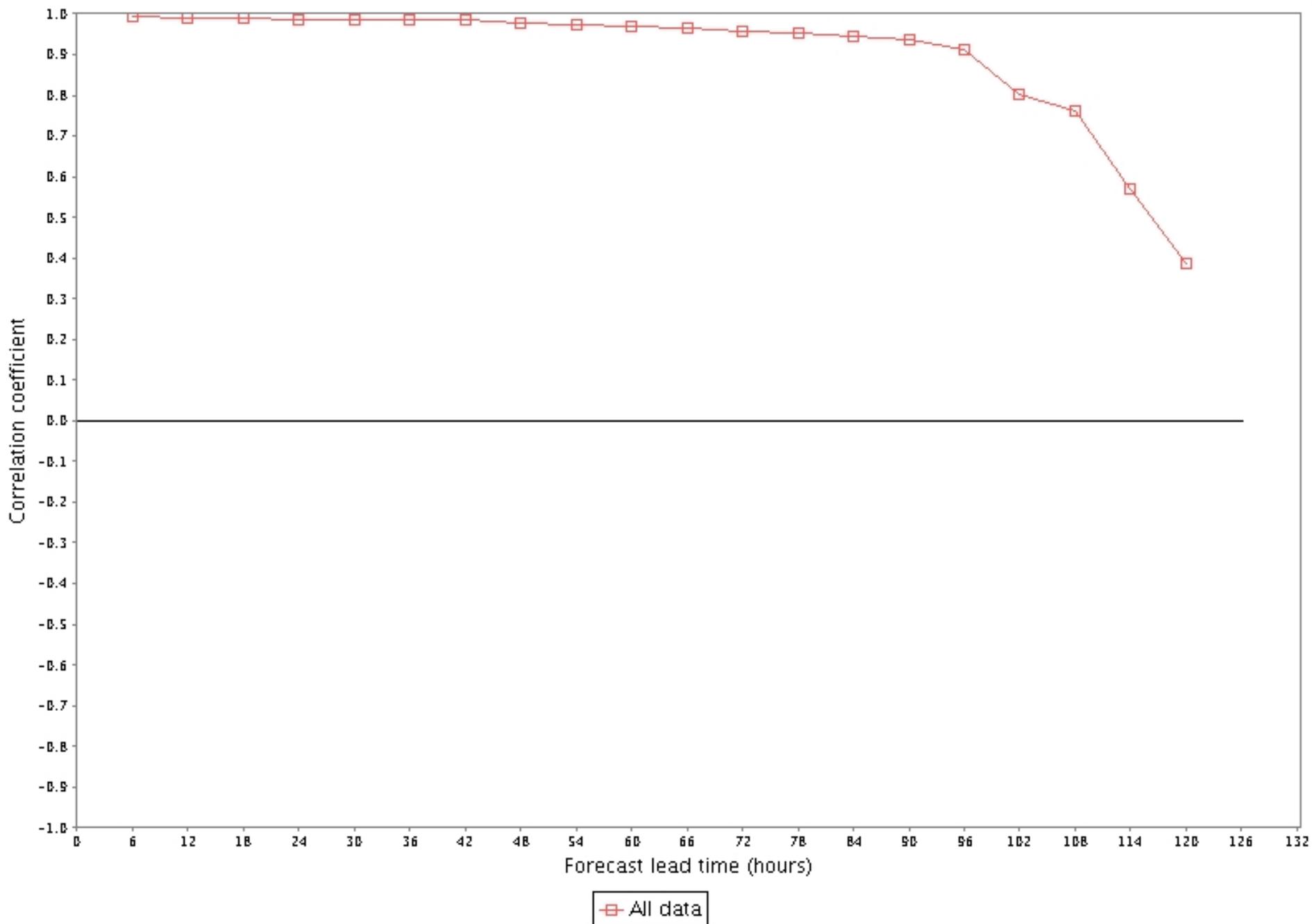


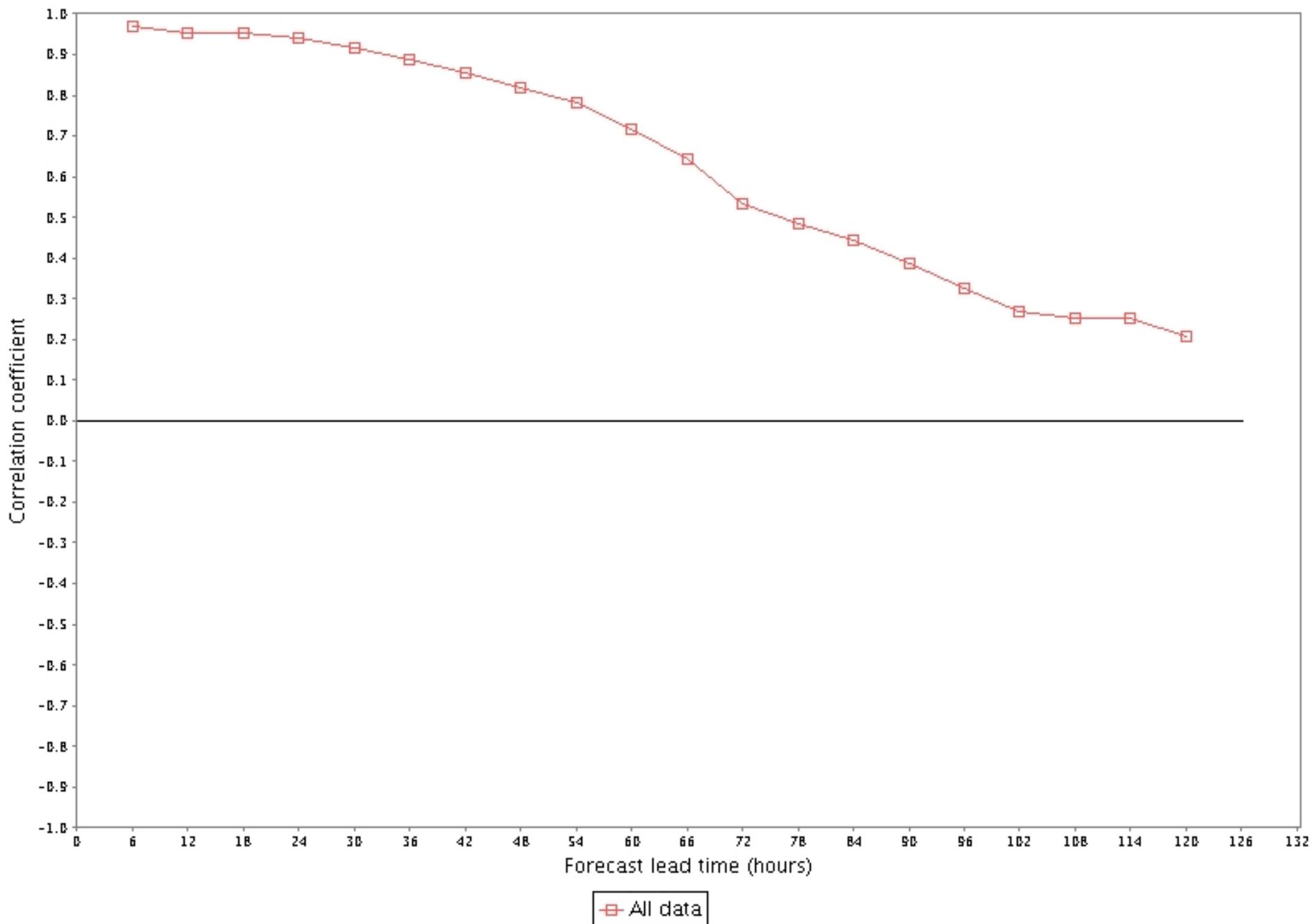
HMOS EVS results ABRFC

- HMOS run retrospectively for 11+ year period; Feb 97 to Oct 08
- 3 Points studied.
- BLUO2 – Headwater, smallest overall basin
- QUAO2 – Mid-side basin, not a headwater
- DEKT2 – Larger total basin, somewhat regulated.
- EVS used to study resulting .CS files

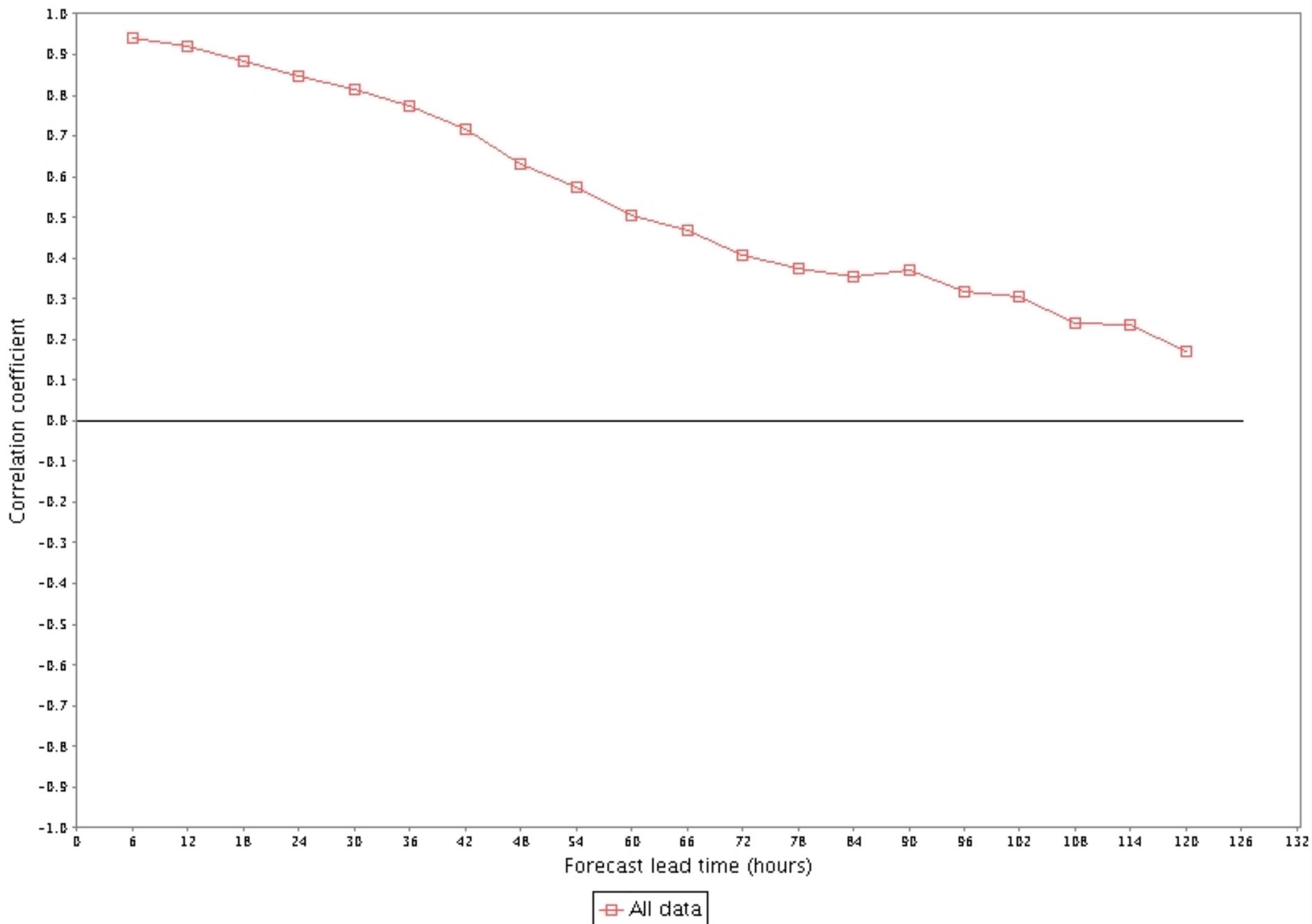
Correlation of the observations and ensemble mean forecast by forecast lead time.
DEKT2.DEKT2.streamflow.hmos



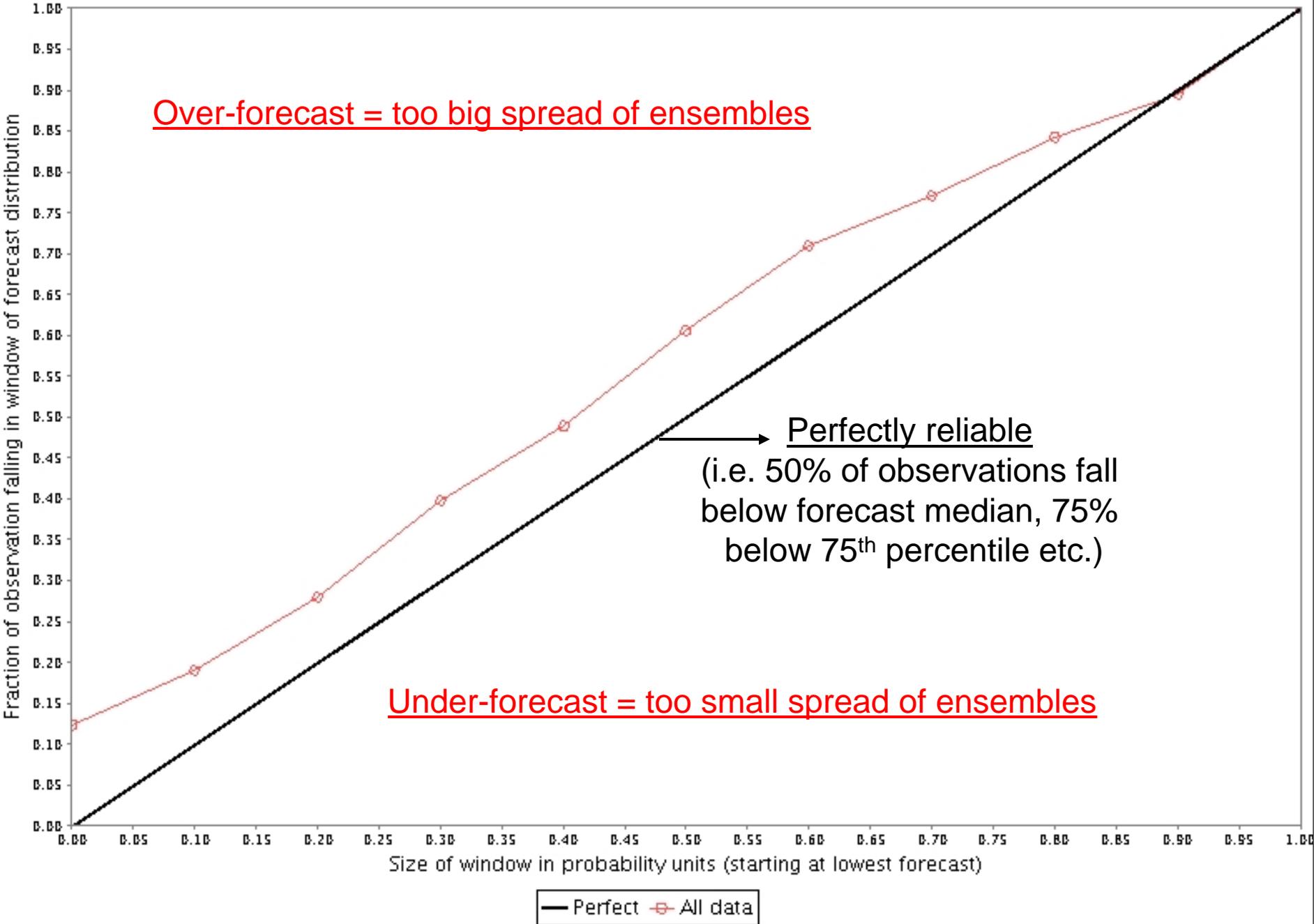
Correlation of the observations and ensemble mean forecast by forecast lead time.
QUA02.QUA02.streamflow.hmos



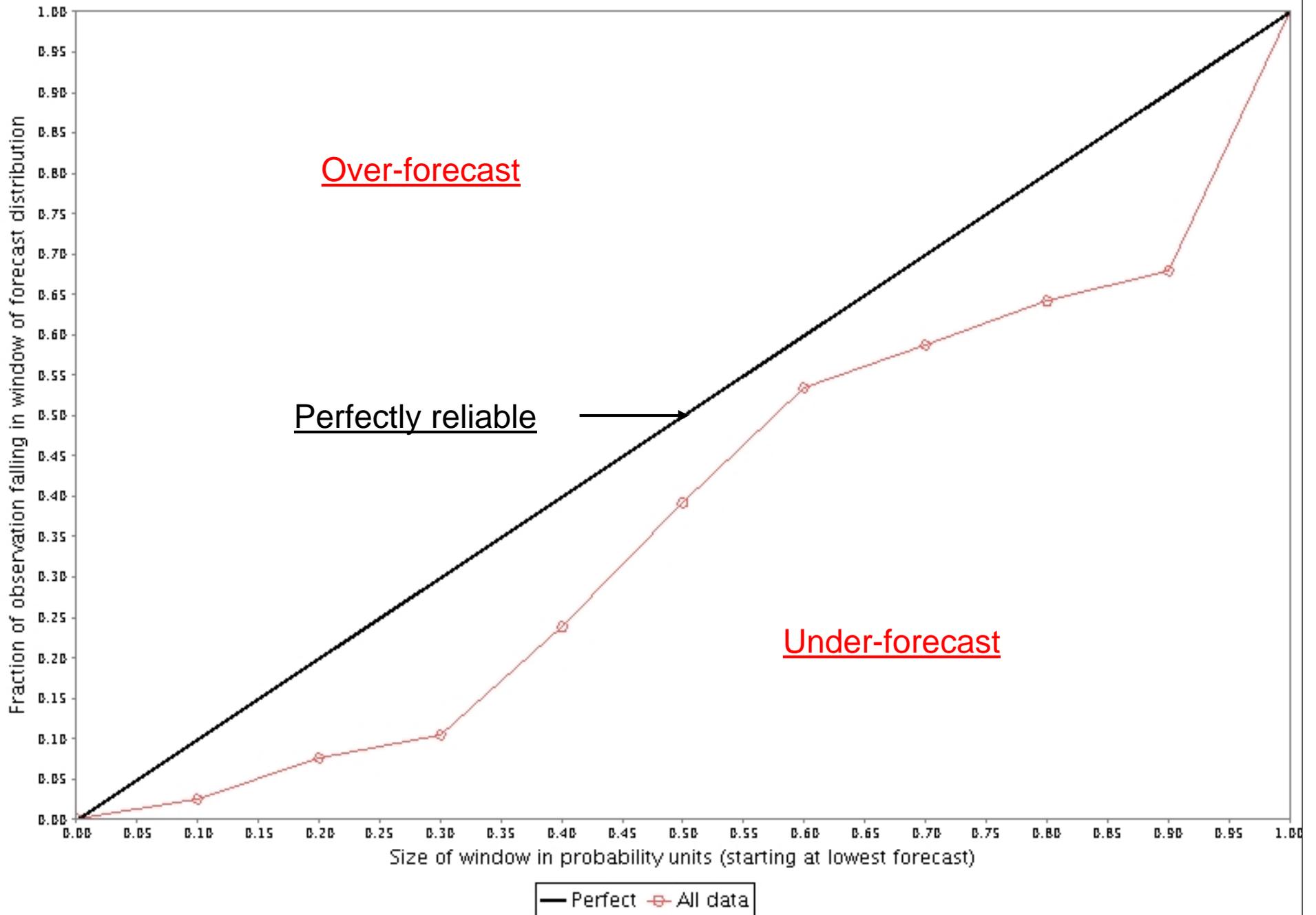
Correlation of the observations and ensemble mean forecast by forecast lead time.
BLUO2.BLUO2.streamflow.hmos



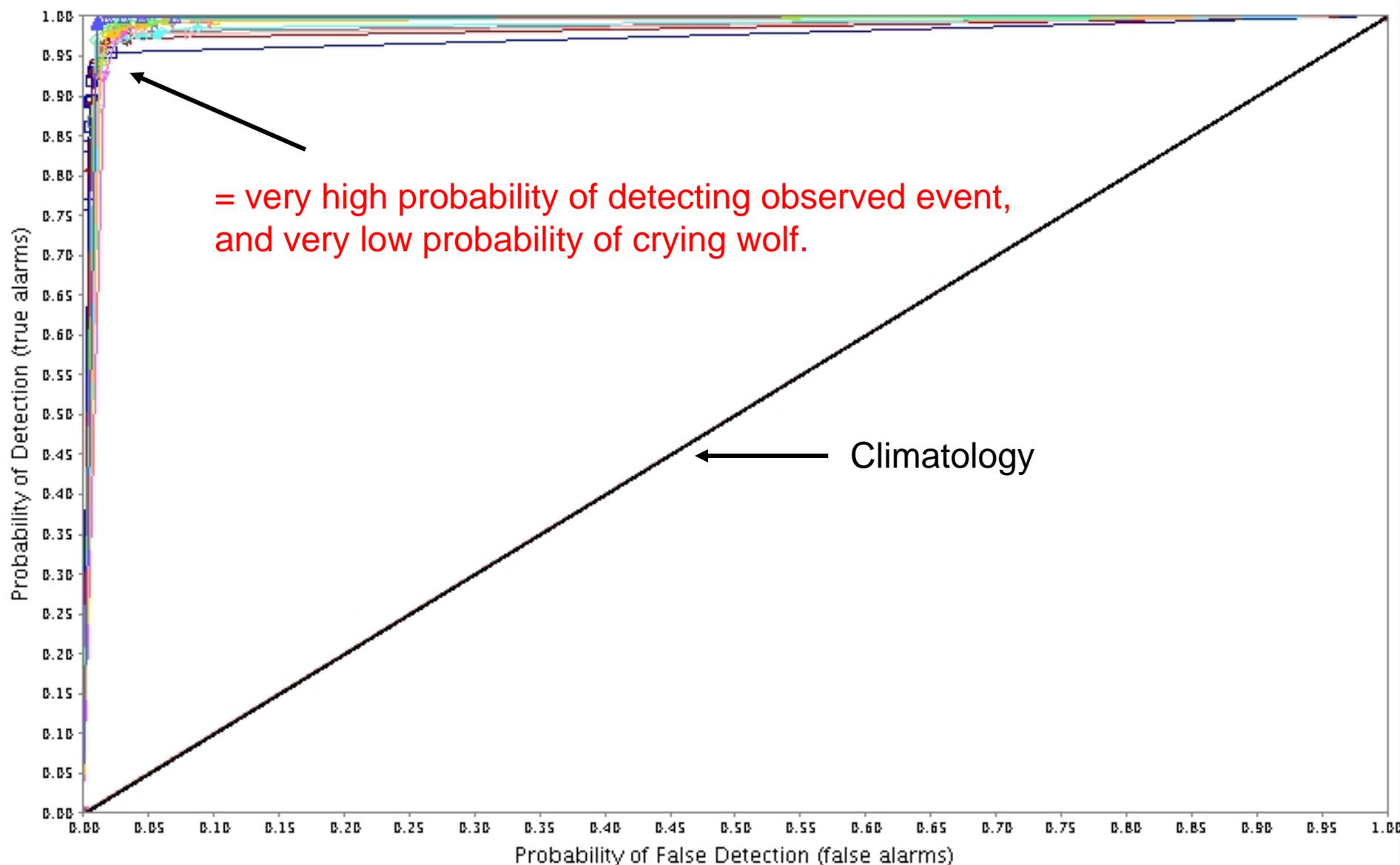
Cumulative Talagrand plot.
BLUO2.BLUO2.streamflow.hmos at lead hour 6



Cumulative Talagrand plot.
BLUO2.BLUO2.streamflow.hmos at lead hour 120

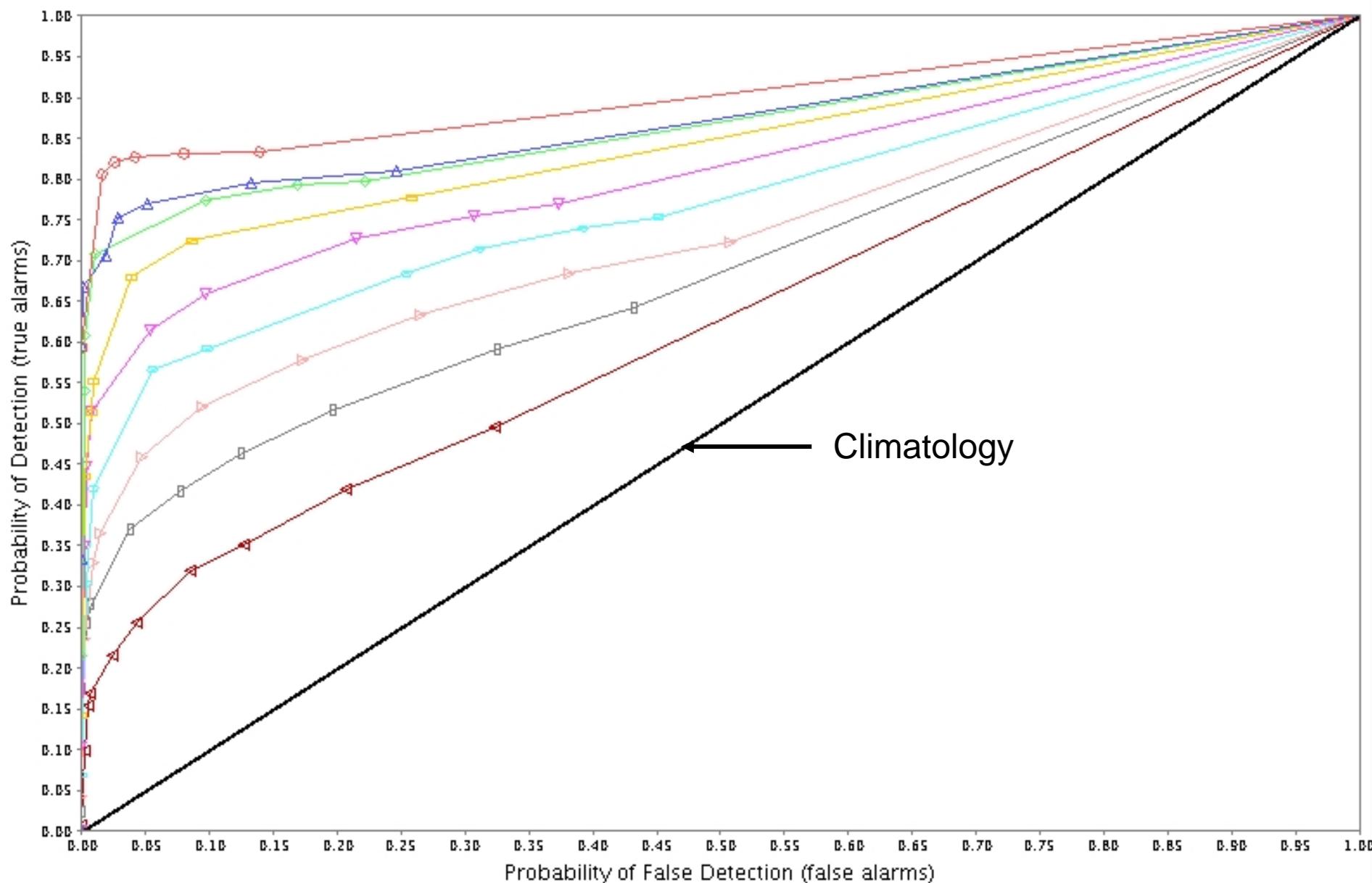


Relative Operating Characteristic for different event (probability) thresholds.
 BLUO2.BLUO2.streamflow.hmos at lead hour 6



- Random guess (no skill)
- ⊖ P[ob] > 0.0 (-7.65)
- ⊕ P[ob] > 0.1 (12.34)
- ⊖ P[ob] > 0.2 (31.75)
- ⊕ P[ob] > 0.3 (47.55)
- ⊖ P[ob] > 0.4 (69.42)
- ⊕ P[ob] > 0.5 (90.01)
- ⊖ P[ob] > 0.6 (114.71)
- ⊕ P[ob] > 0.7 (150.62)
- ⊖ P[ob] > 0.8 (218.61)
- ⊕ P[ob] > 0.9 (376.76)

Relative Operating Characteristic for different event (probability) thresholds.
 BLUO2.BLUO2.streamflow.hmos at lead hour 120



— Random guess (no skill) —○— P[ob] > 0.1 (12.34). —△— P[ob] > 0.2 (31.75). —◇— P[ob] > 0.3 (47.55). —□— P[ob] > 0.4 (69.42).
 —▽— P[ob] > 0.5 (90.01). —●— P[ob] > 0.6 (114.71). —▲— P[ob] > 0.7 (150.62). —■— P[ob] > 0.8 (218.61). —▼— P[ob] > 0.9 (376.76).

EVS Unmet needs

- Need for EVS to be able to create various types of box plots, using GUI interface to set.
- Need for EVS to be able to create sample size plots for various metrics.
- Would like User manual documentation to contain easy to understand **REAL** examples of graphics from EVS, and simple to understand explanations of results (Talagrand graphic that is doctored up with labels). Would be nice to have these inside application as well (instead of links, or mathematical formulas)

EVS Unmet needs

- Need more user friendly error messages, better explaining what when wrong.
- Need more intelligent way to read in .CS files (not just entire directory)