## EASTERN REGION TECHNICAL ATTACHMENT No. 71-11-8 November 8, 1971

## COMPARATIVE VERIFICATION OF PEATMOS AND FOUS 3 POPS OCTOBER 1970 THRU APRIL 1971, AND JULY 1971

The PEATMOS PoPs will soon replace the subjective NMC PoPs on NAFAX. The PEATMOS forecast technique was developed by the Techniques Development Laboratory and utilizes predictors from the PE and trajectory models. Specific details will be provided in a forthcoming Technical Procedures Bulletin. The FOUS 3 PoPs are based upon a technique described in Eastern Region Technical Memorandum No. 38.

A comparative verification between PEATMOS and FOUS 3 was performed for the period October 1970 through April 1971, and one summer month, July 1971. The verification was done for Boston, New York, Philadelphia and Washington — the four cities used to develop the FOUS 3 technique. The results, below, indicate that the skill of both techniques is nearly equal. As a result of this verification, we recommend that the PEATMOS PoPs be given quite a bit of importance in formulating the forecasts at the WSFOs. The FOUS 3 PoPs will continue to be disseminated until it becomes obvious that they add little to the PEATMOS technique.

\* COMPARATIVE (IDENTICAL SAMPLE) BRIER SCORES - OCTOBER 1970 THRU APRIL 1971 - ALL CITIES COMBINED (BOS, NYC, PHL, DCA)

PERIOD	PEATMOS	FOUS 3
1	0.096	0.099
2	0.111	0.126
3	0.132	0.132

\* COMPARATIVE (IDENTICAL SAMPLE) BRIER SCORES - JULY 1971 - ALL CITIES COMBINED (BOS, NYC, PHL, DCA)

PERIOD	PEATMOS	FOUS 3
1	0.121	0.125
2	0.136	0.132
3	0.140	0.136

<sup>\*</sup> Based on one forecast per day derived from PE output from 0000 GMT initial data.