**Anticipated Research Timeline – WPC Project[[1]](#footnote-1)\***

**May 2016:**

* Prepare the second 6-month progress report for NOAA.
* Conclude compositing of extreme events based on geographic event clusters.

**June 2016:**

* Cluster extreme events based upon the antecedent flow pattern over the North Pacific and perform composite analyses on identified clusters.
* Build infrastructure to project GEFS ensemble members onto the North Pacific Jet phase diagram in real time.

**July 2016:**

* Continue composite analysis on identified extreme event clusters.
* Begin assessment of the medium-range forecast skill for the extreme event clusters.
* Prepare project results for presentation at the August NGGPS PI meeting.

**August 2016:**

* Conclude composite analyses of the extreme event clusters and begin preparing results for the NWA meeting in Norfolk, VA.
* Continue analysis of medium-range forecast skill for extreme event clusters.
* Prepare North Pacific Jet phase diagram so that it may be run in real time beginning in September 2016.

**September 2016:**

* Begin producing a real-time North Pacific Jet phase diagram that will be made available to colleagues at WPC.
* Continue analysis of medium-range forecast skill for extreme event clusters.
* Begin developing climatological distributions of 8–10-day temperature and precipitation forecasts in the GEFS.

**October 2016:**

* Conclude analysis of medium-range forecast skill for extreme event clusters.
* Continue development of climatological distributions of 8–10-day temperature and precipitation forecasts in the GEFS.
* Begin assessing the predictive skill of extreme temperature and precipitation events in the GEFS by employing the above climatological distributions.

**Other Project Related Activities**:

- Coordinate visits to WPC with Arlene Laing and Mike Bodner over the summer and in early Fall to continue the transition of research results/products to operations.

- Keep an eye out for the development of any extreme events over the CONUS that may be of interest to the project.

1. \* Subject to change [↑](#footnote-ref-1)