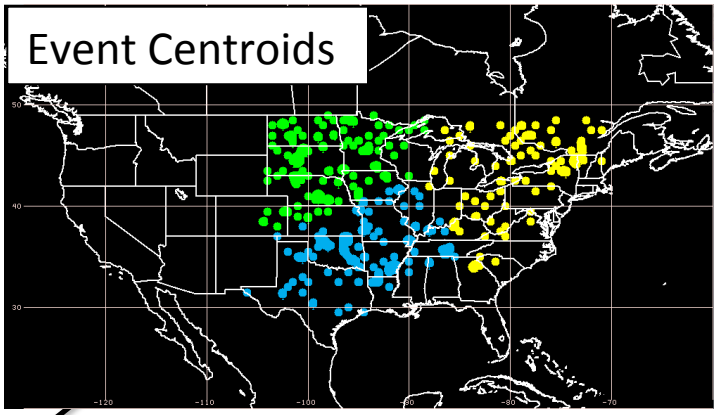
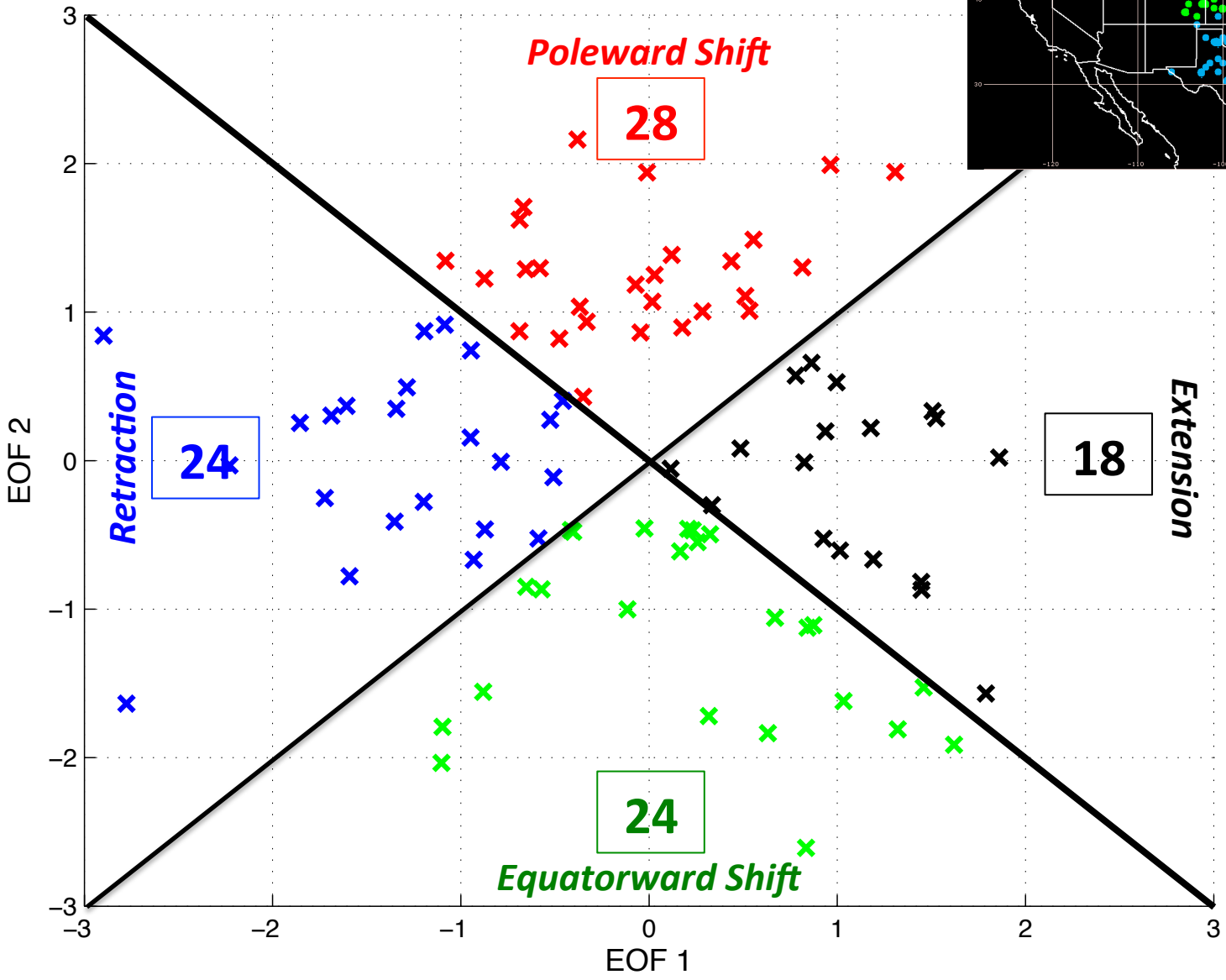
Classification of EWEs based on the antecedent state of the N. Pacific Jet

EXTREME WARM EVENTS

Eastern U.S. – N. Plains Cluster (1)

** X's below are colored by quadrant of the phase diagram**





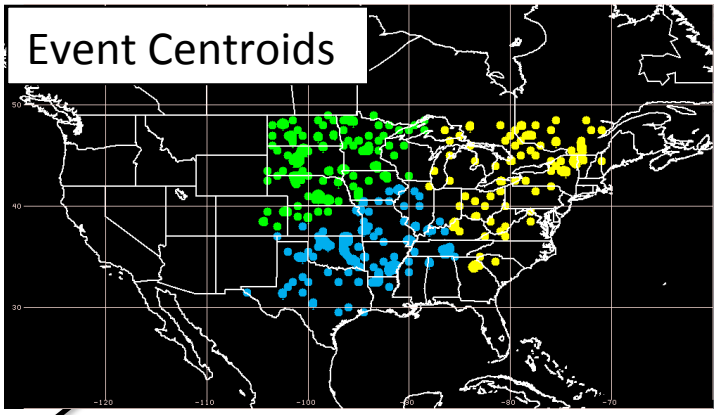
Events during Sept. – May projected onto phase diagram

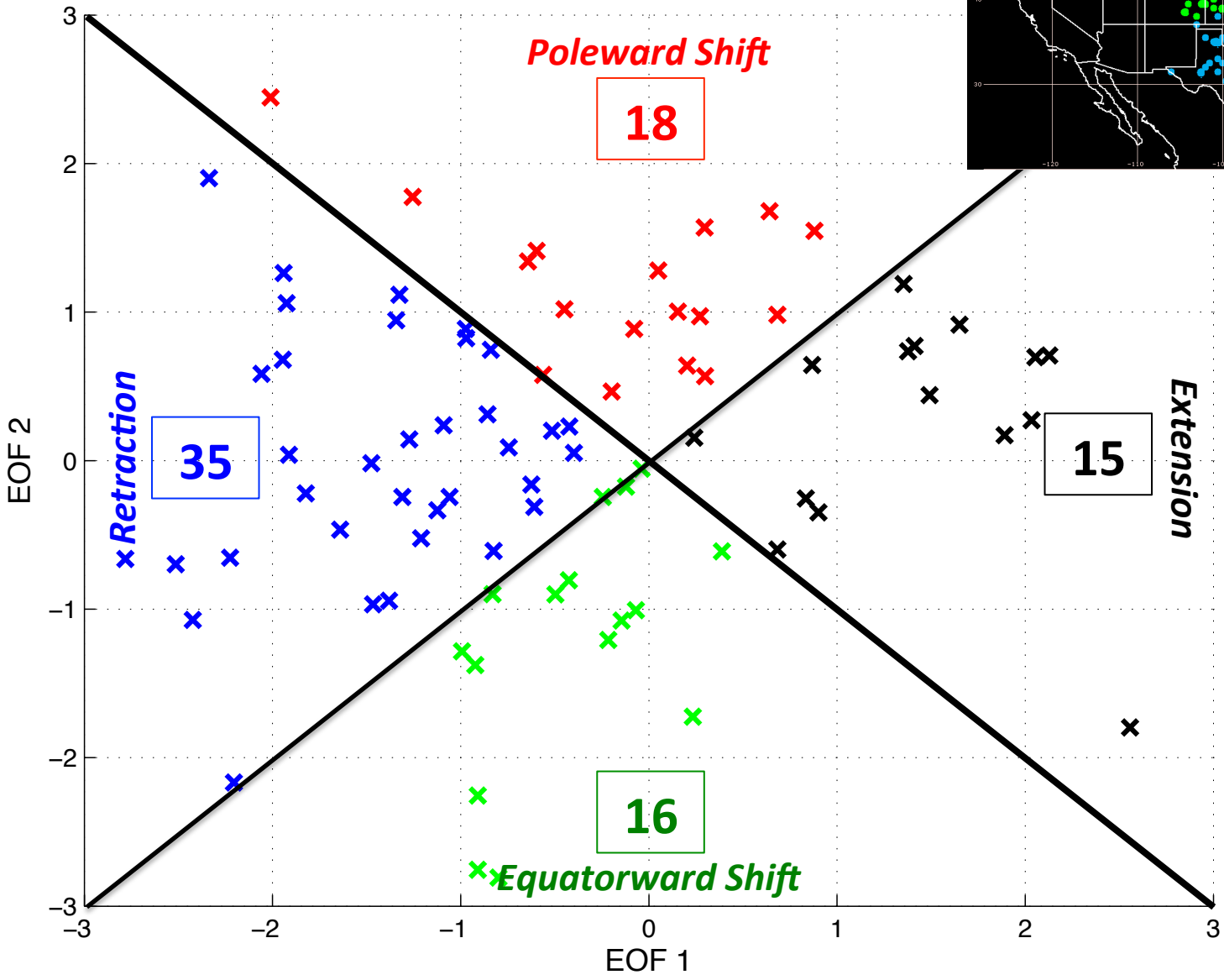
Each point is an average of the PCs for 3–7 days prior to the event

94 events

Eastern U.S. – S. Plains Cluster (2)

** X's below are colored by quadrant of the phase diagram**





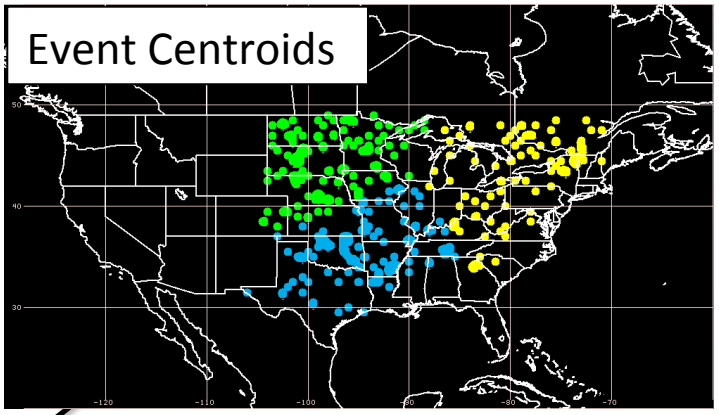
Events during Sept. – May projected onto phase diagram

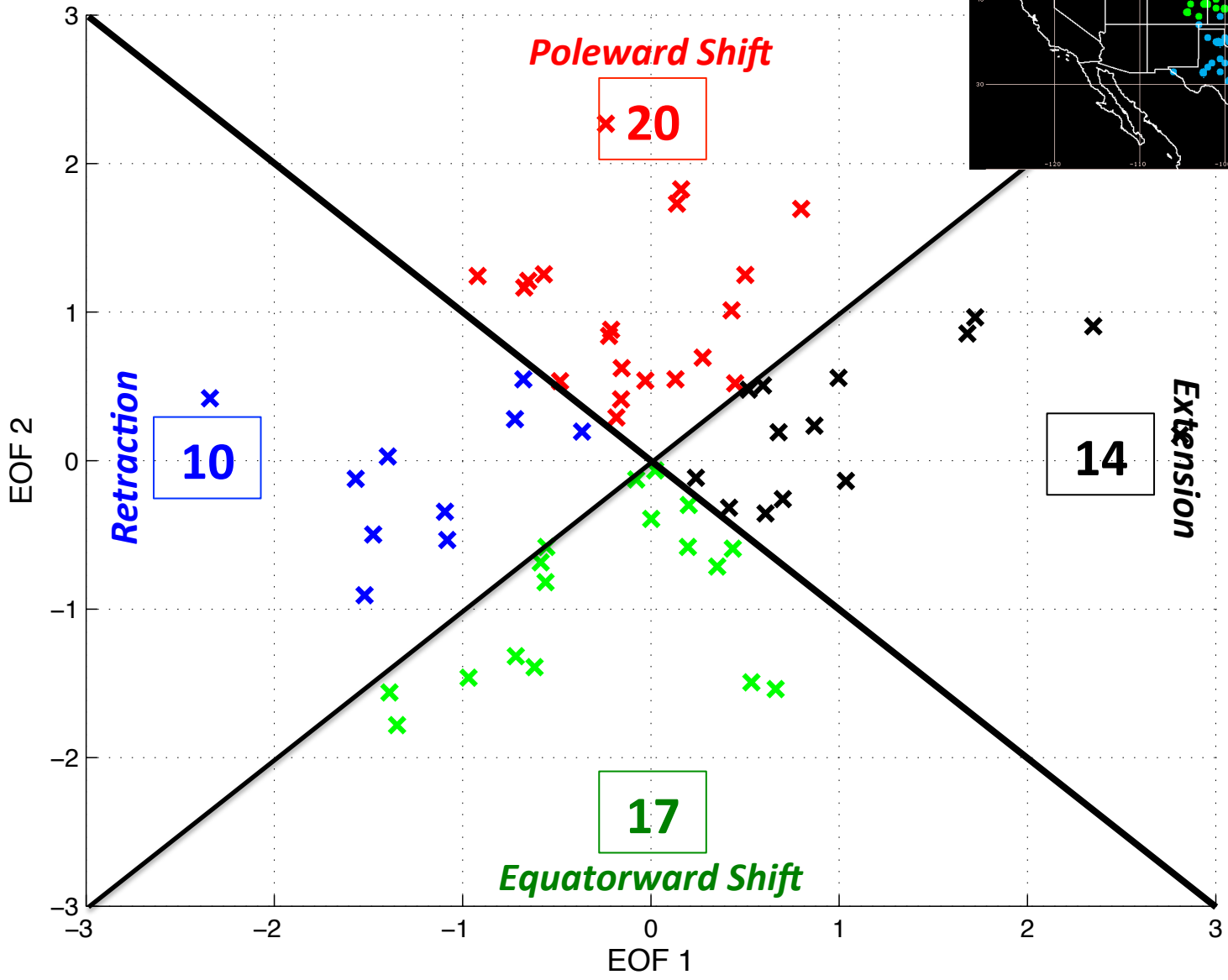
Each point is an average of the PCs for 3–7 days prior to the event

84 events

Eastern U.S. – Northeast Cluster (3)

** X's below are colored by quadrant of the phase diagram**





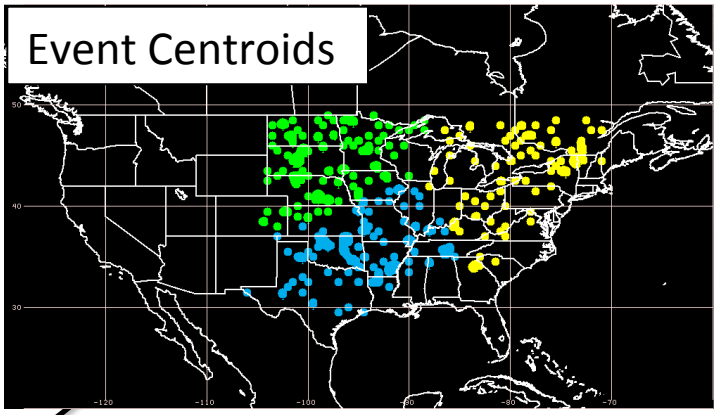
Events during Sept. – May projected onto phase diagram

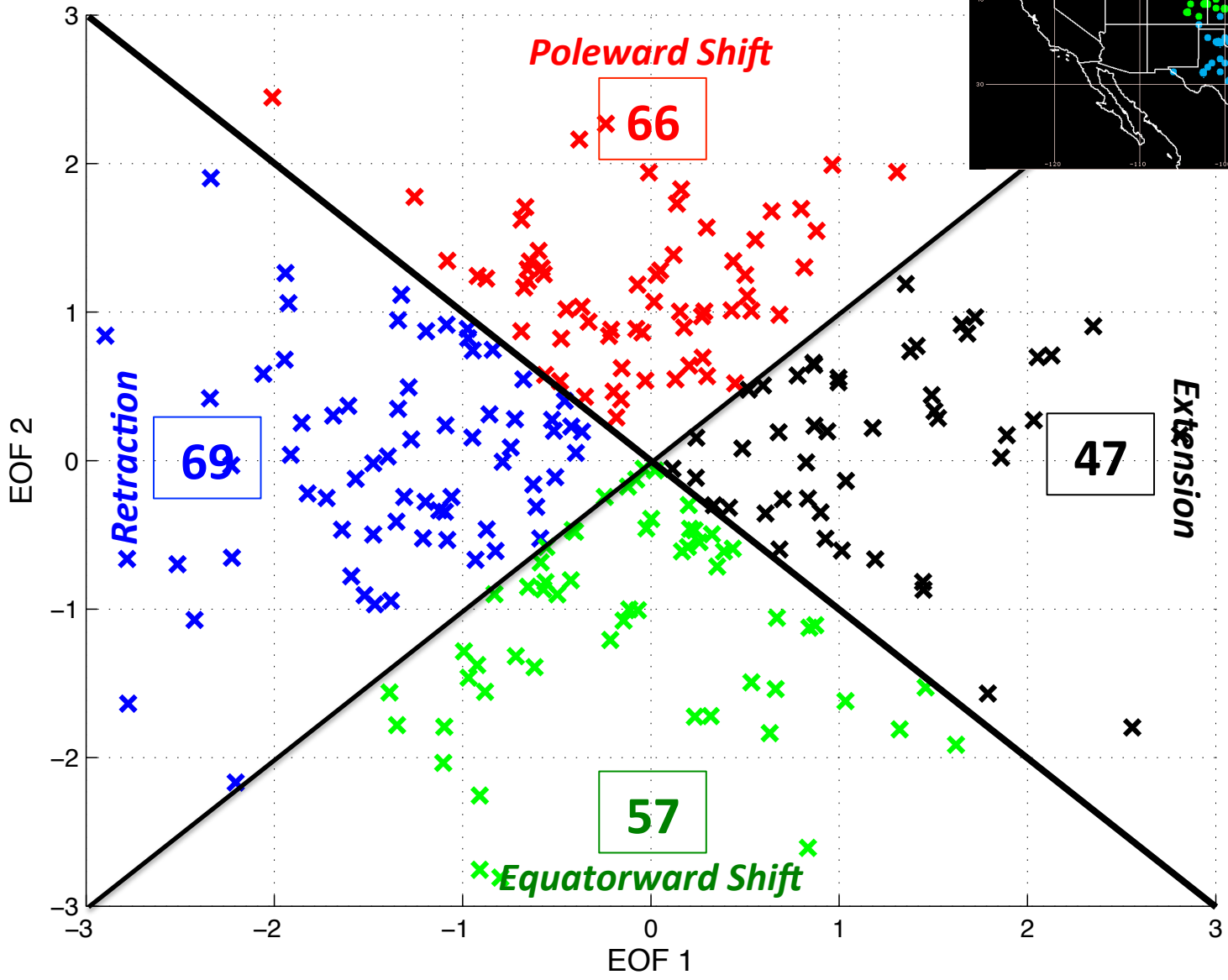
Each point is an average of the PCs for 3–7 days prior to the event

61 events

Eastern U.S. – All Events

** X's below are colored by quadrant of the phase diagram**





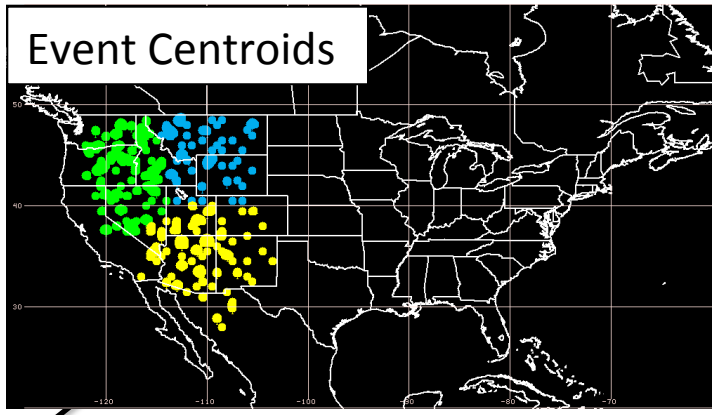
Events during Sept. – May projected onto phase diagram

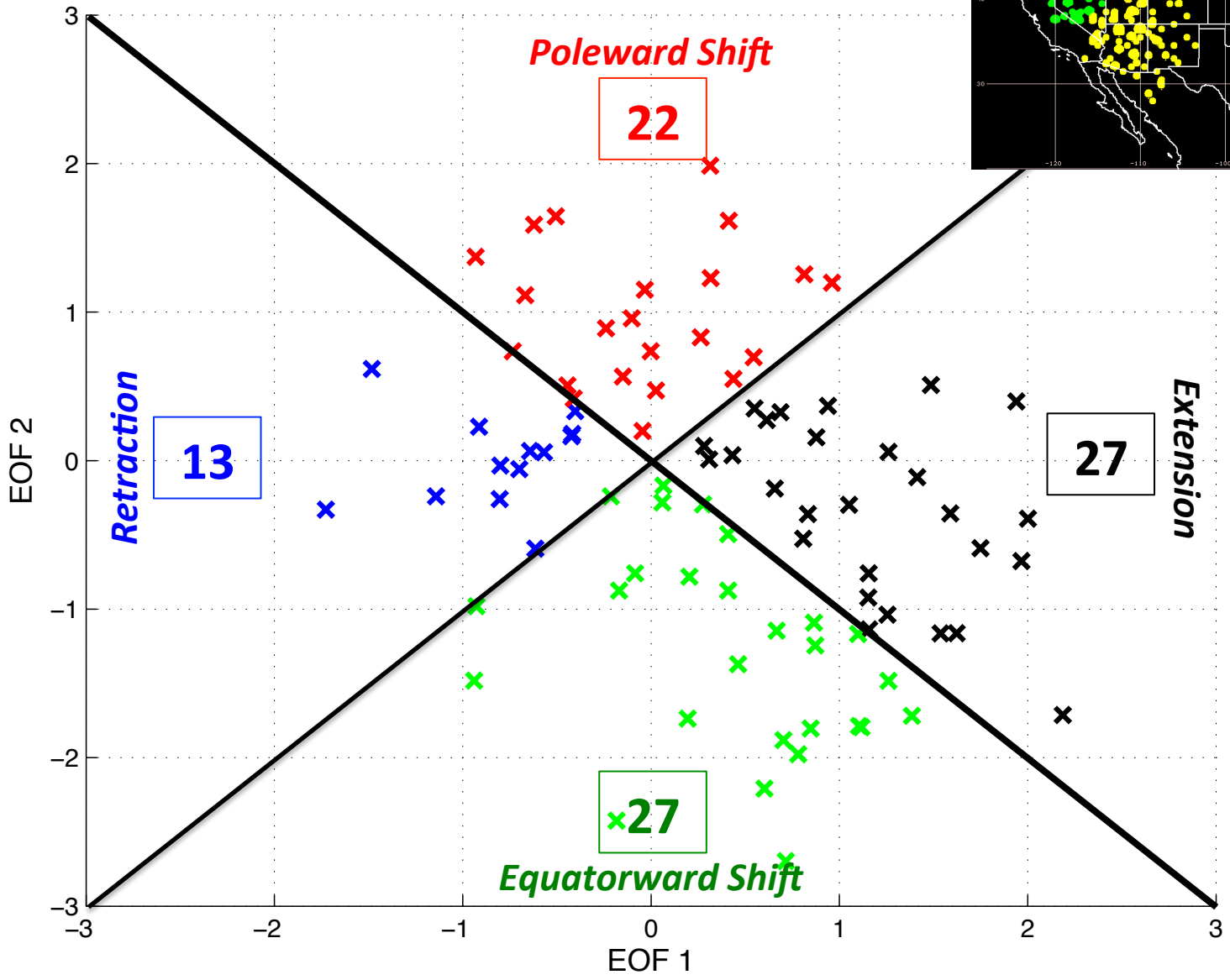
Each point is an average of the PCs for 3–7 days prior to the event

239 events

Western U.S. – Pacific NW Cluster (1)

** X's below are colored by quadrant of the phase diagram**





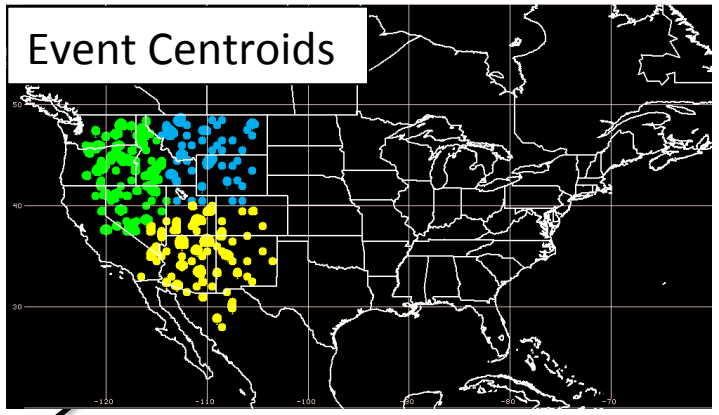
Events during Sept. – May projected onto phase diagram

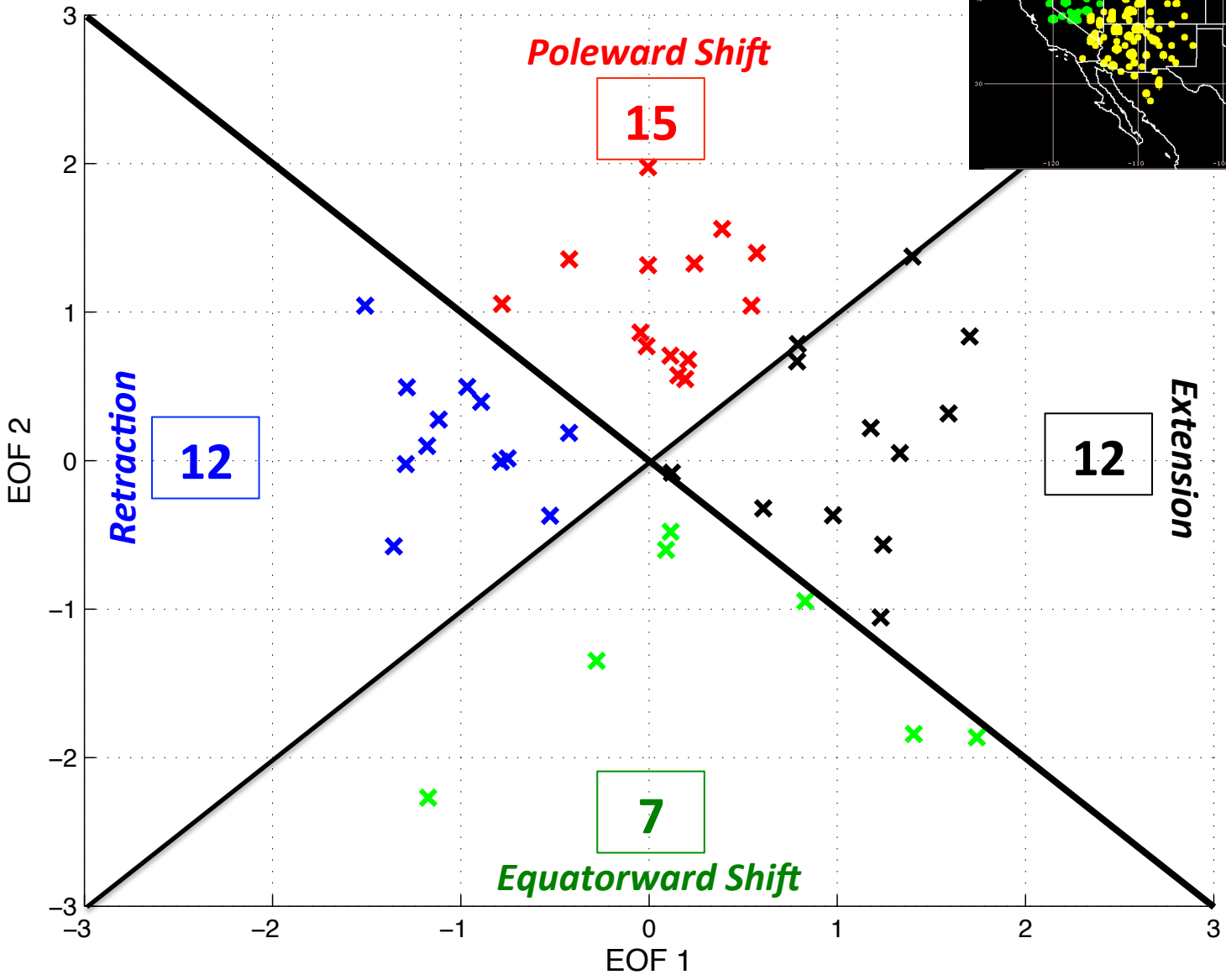
Each point is an average of the PCs for 3–7 days prior to the event

89 events

Western U.S. – N. Rockies Cluster (2)

** X's below are colored by quadrant of the phase diagram**





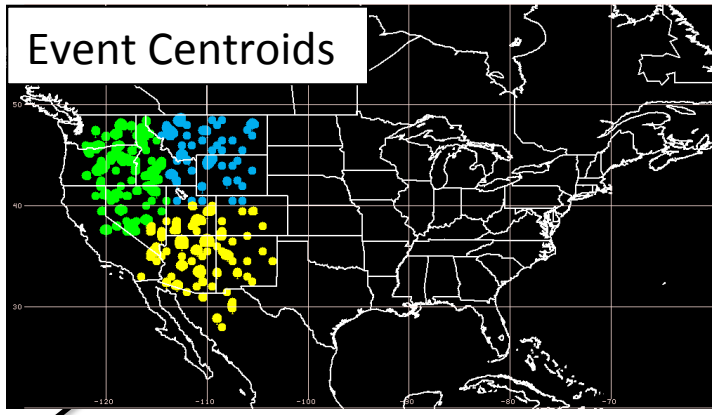
Events during Sept. – May projected onto phase diagram

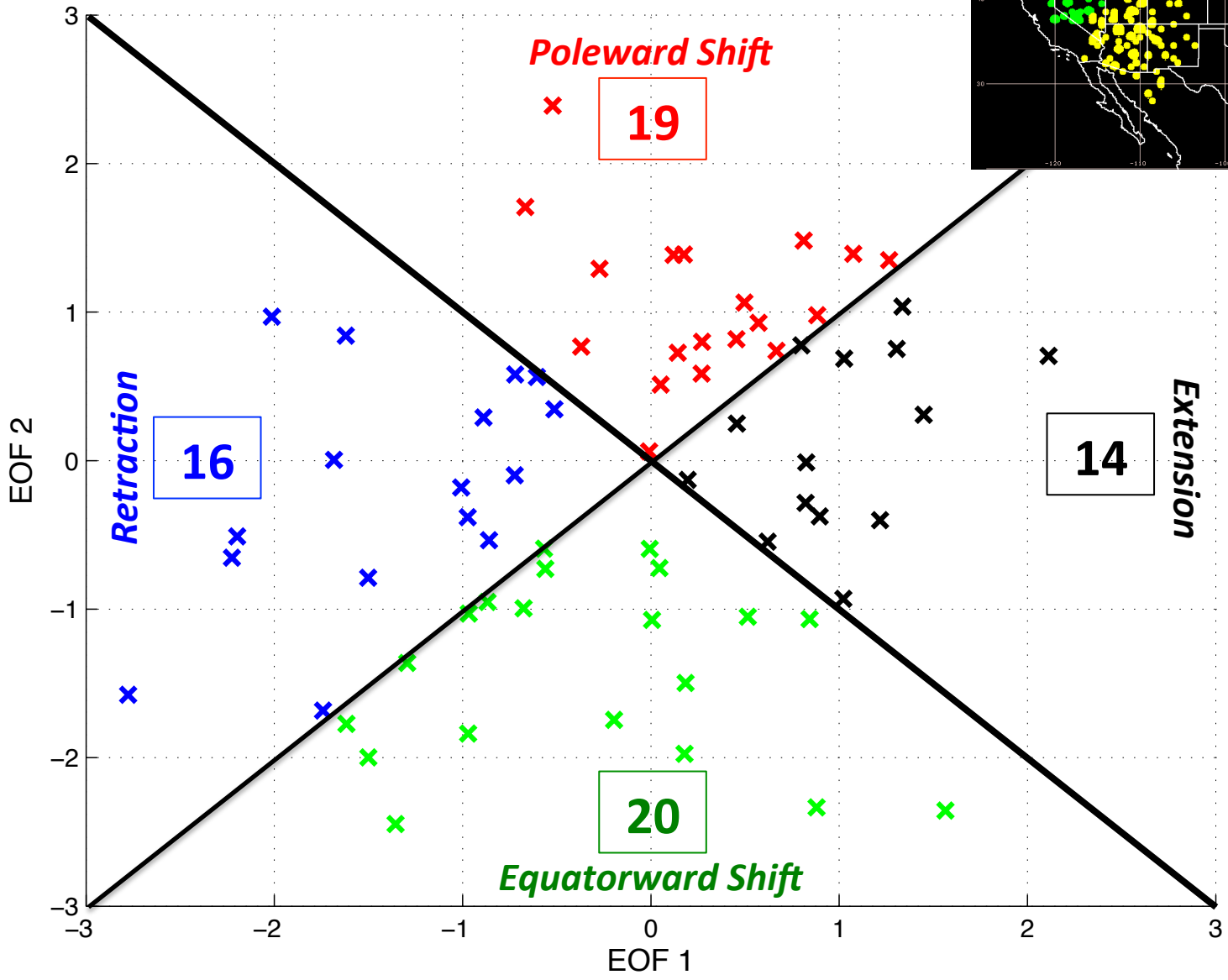
Each point is an average of the PCs for 3–7 days prior to the event

46 events

Western U.S. – Southwest Cluster (3)

** X's below are colored by quadrant of the phase diagram**





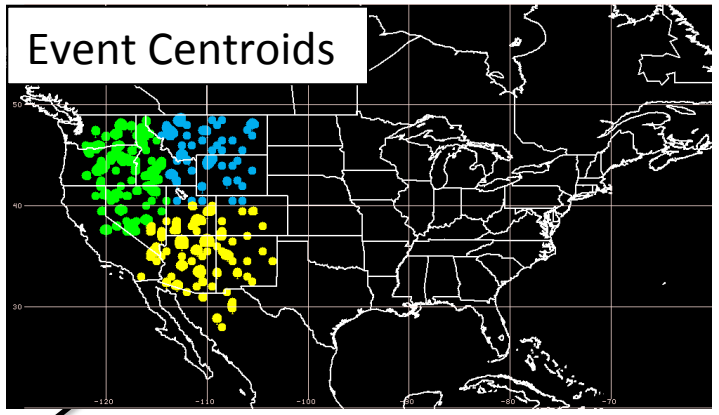
Events during Sept. – May projected onto phase diagram

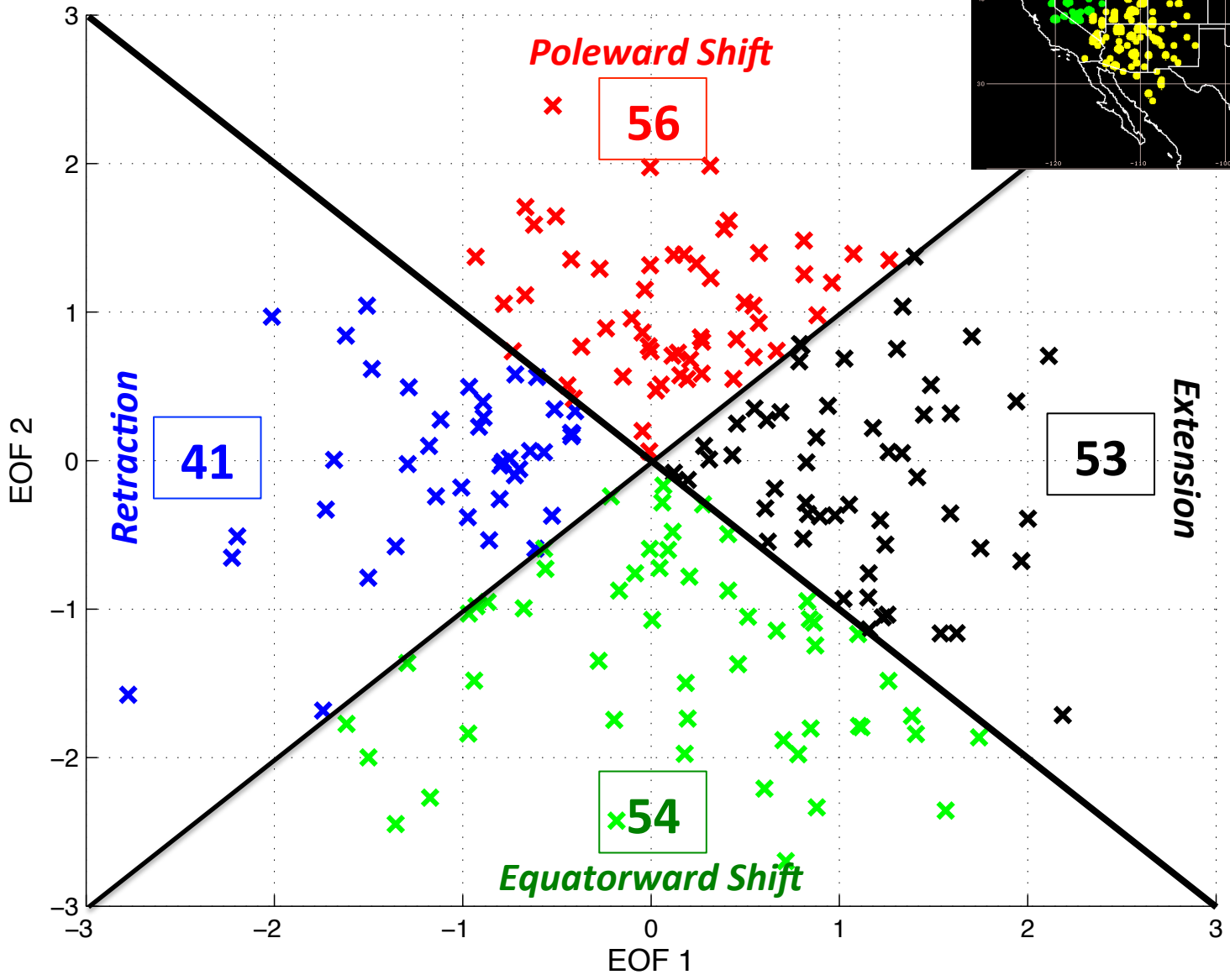
Each point is an average of the PCs for 3–7 days prior to the event

69 events

Western U.S. – All Events

** X's below are colored by quadrant of the phase diagram**





Events during Sept. – May projected onto phase diagram

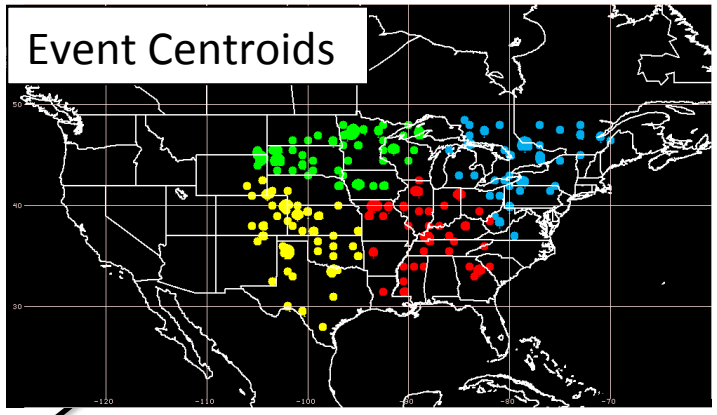
Each point is an average of the PCs for 3–7 days prior to the event

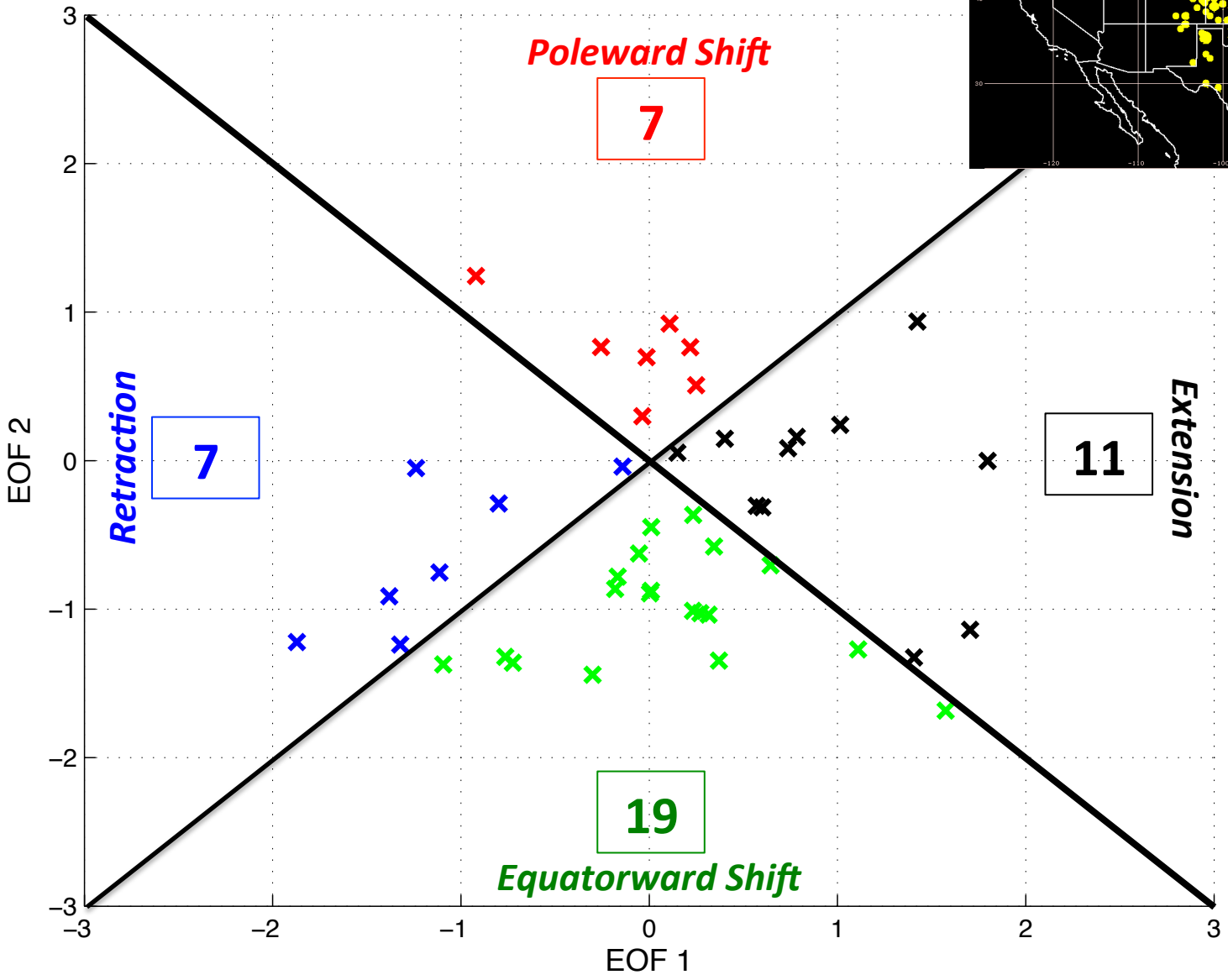
69 events

EXTREME COLD EVENTS

Eastern U.S. – N. Plains Cluster (1)

** X's below are colored by quadrant of the phase diagram**





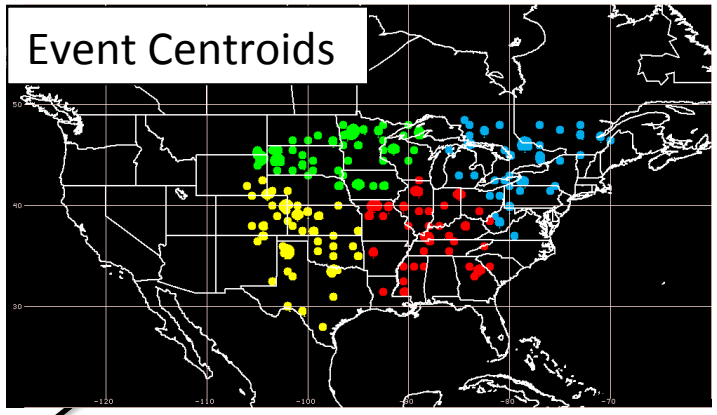
Events during Sept. – May projected onto phase diagram

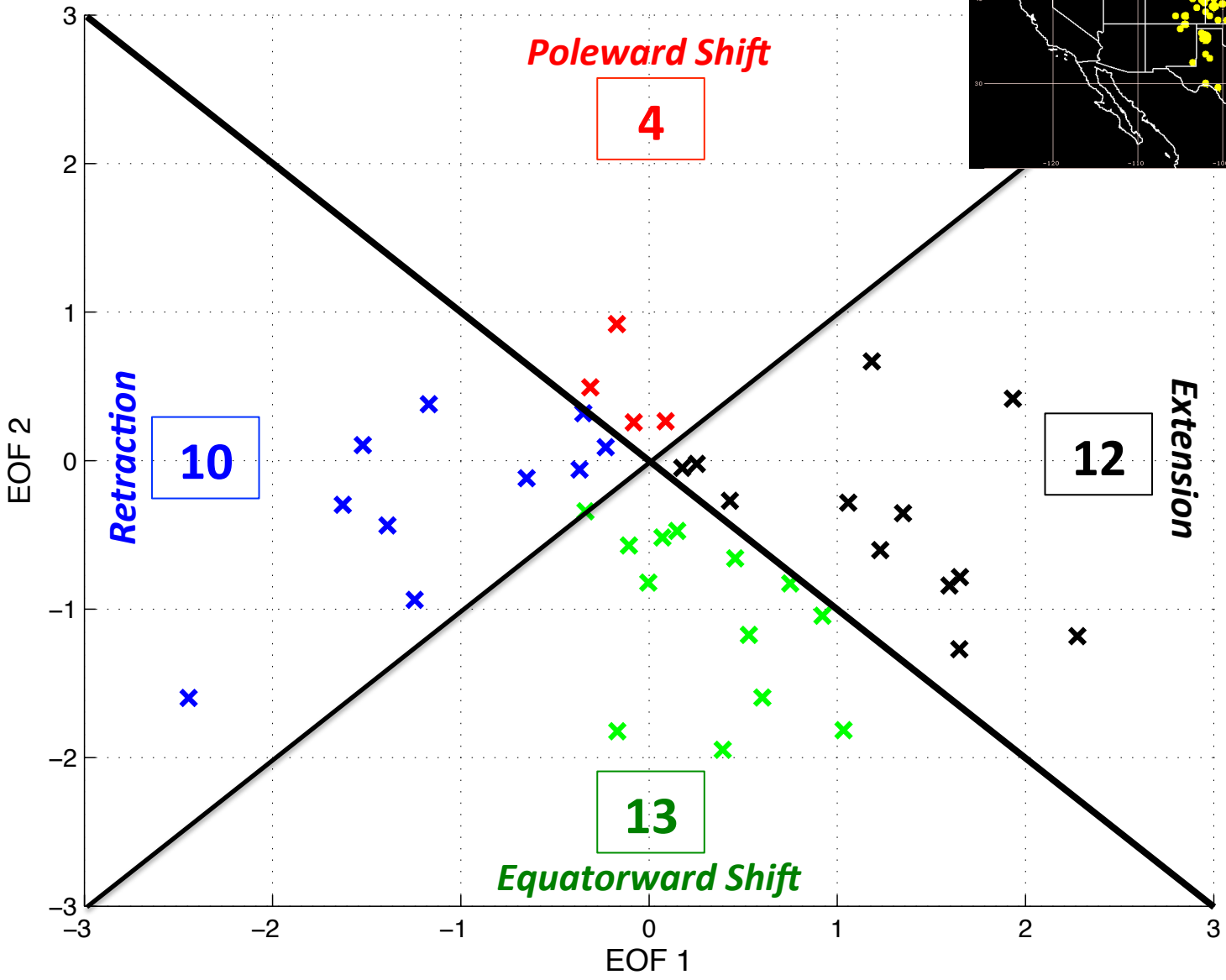
Each point is an average of the PCs for 3–7 days prior to the event

44 events

Eastern U.S. – Northeast Cluster (2)

** X's below are colored by quadrant of the phase diagram**





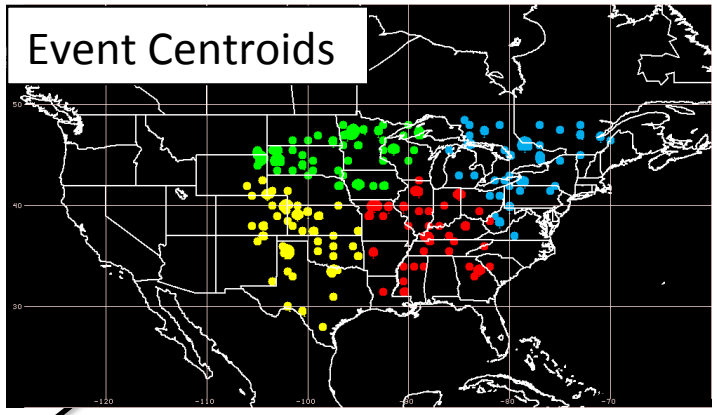
Events during Sept. – May projected onto phase diagram

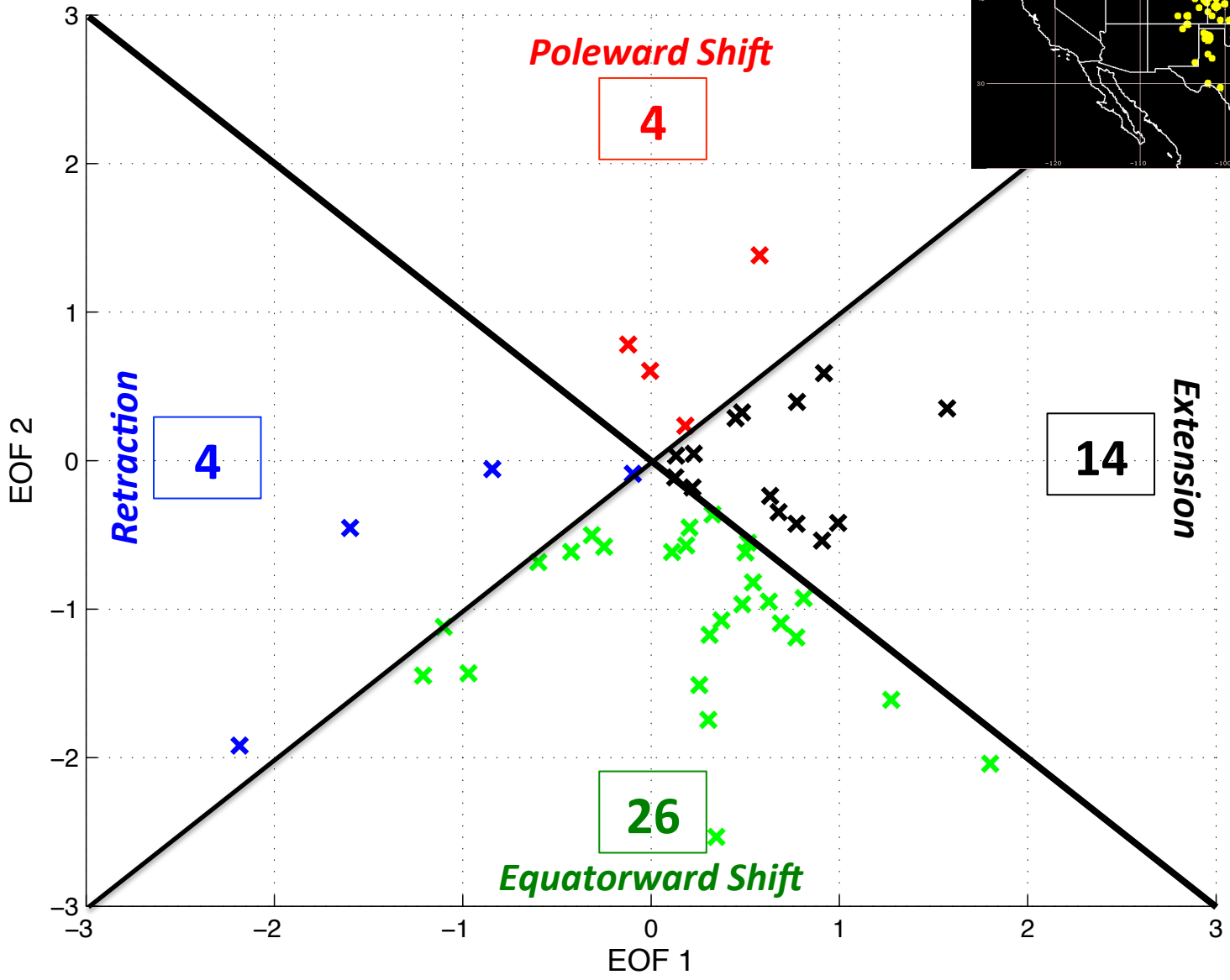
Each point is an average of the PCs for 3–7 days prior to the event

39 events

Eastern U.S. – S. Plains Cluster (3)

** X's below are colored by quadrant of the phase diagram**





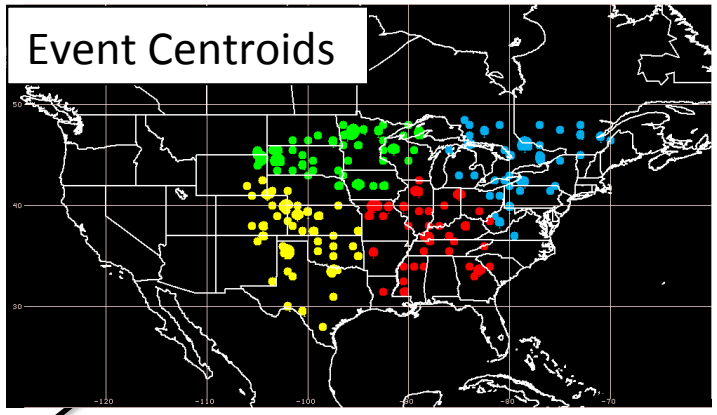
Events during Sept. – May projected onto phase diagram

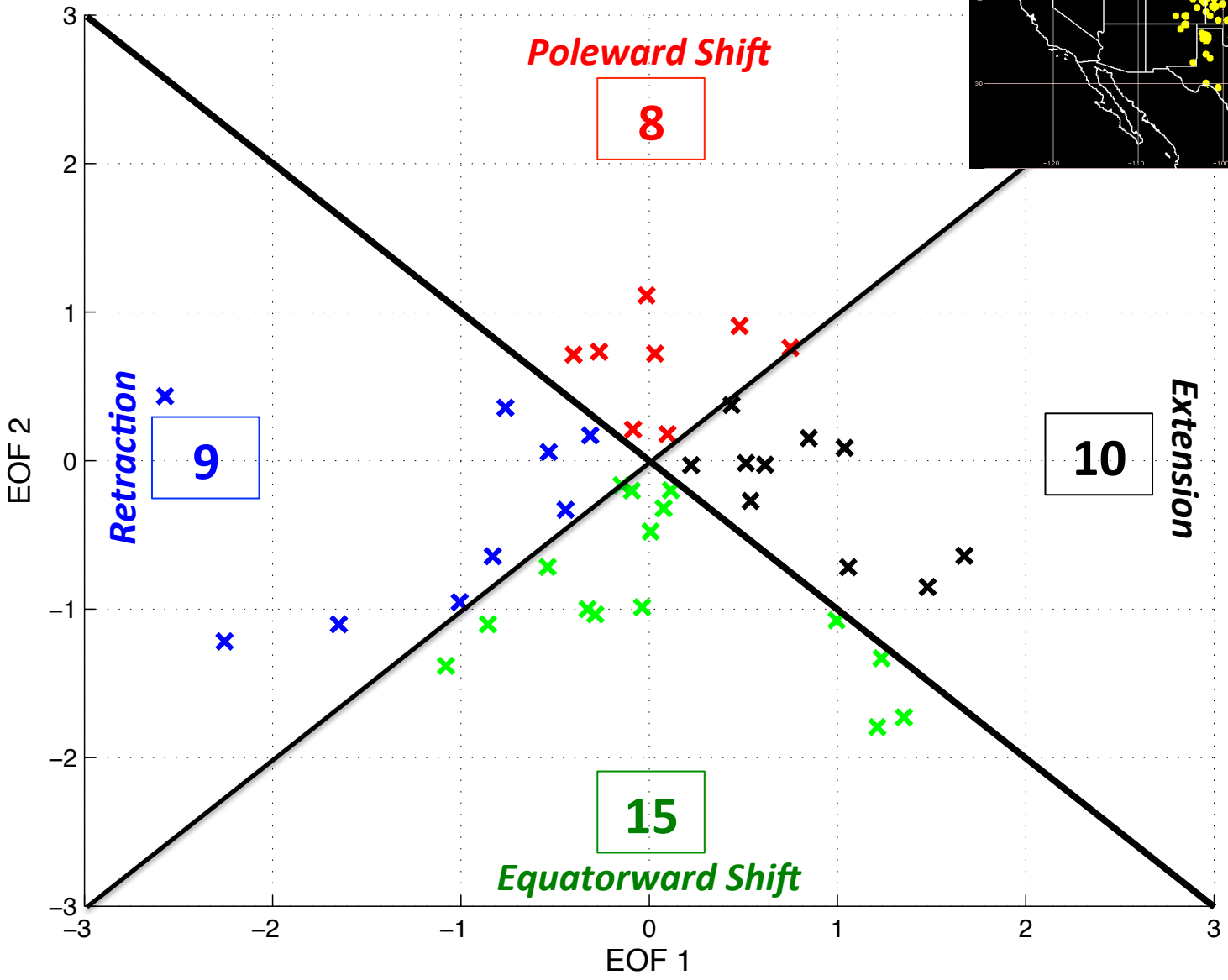
Each point is an average of the PCs for 3–7 days prior to the event

48 events

Eastern U.S. – Southeast Cluster (4)

** X's below are colored by quadrant of the phase diagram**





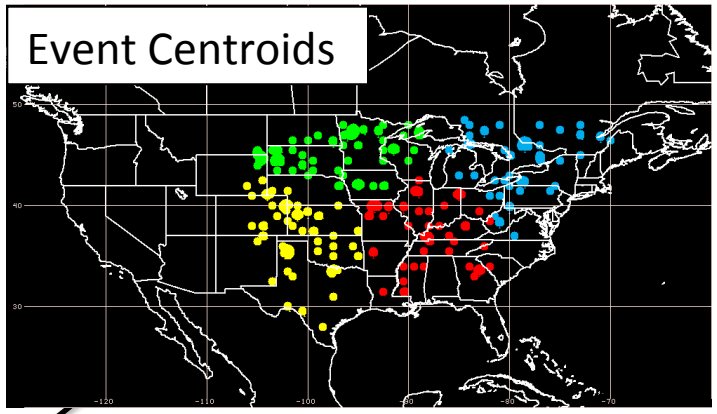
Events during Sept. – May projected onto phase diagram

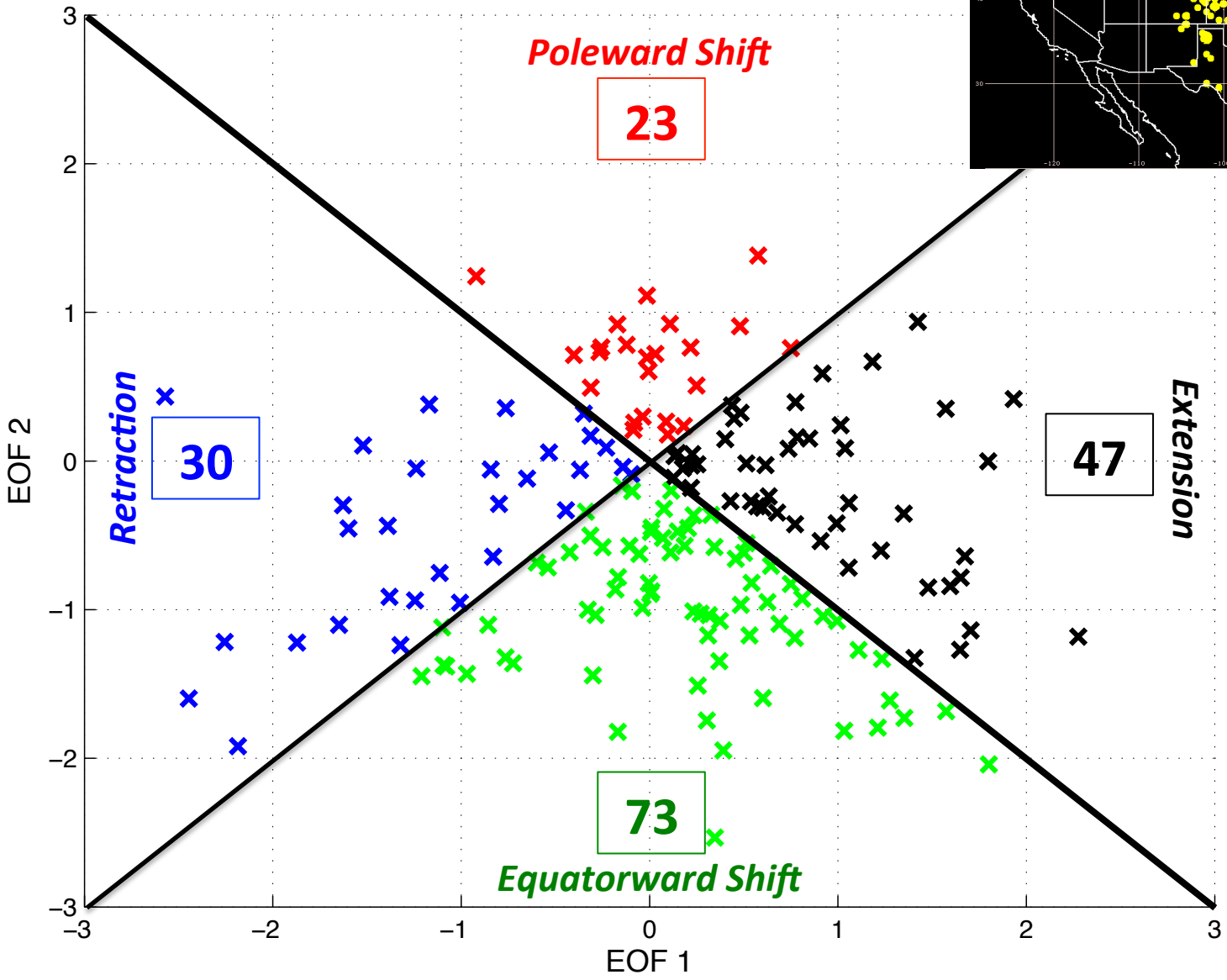
Each point is an average of the PCs for 3–7 days prior to the event

42 events

Eastern U.S. – All Events

** X's below are colored by quadrant of the phase diagram**





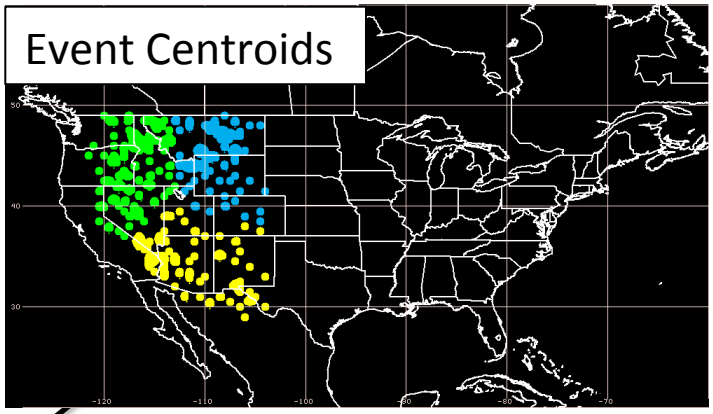
Events during Sept. – May projected onto phase diagram

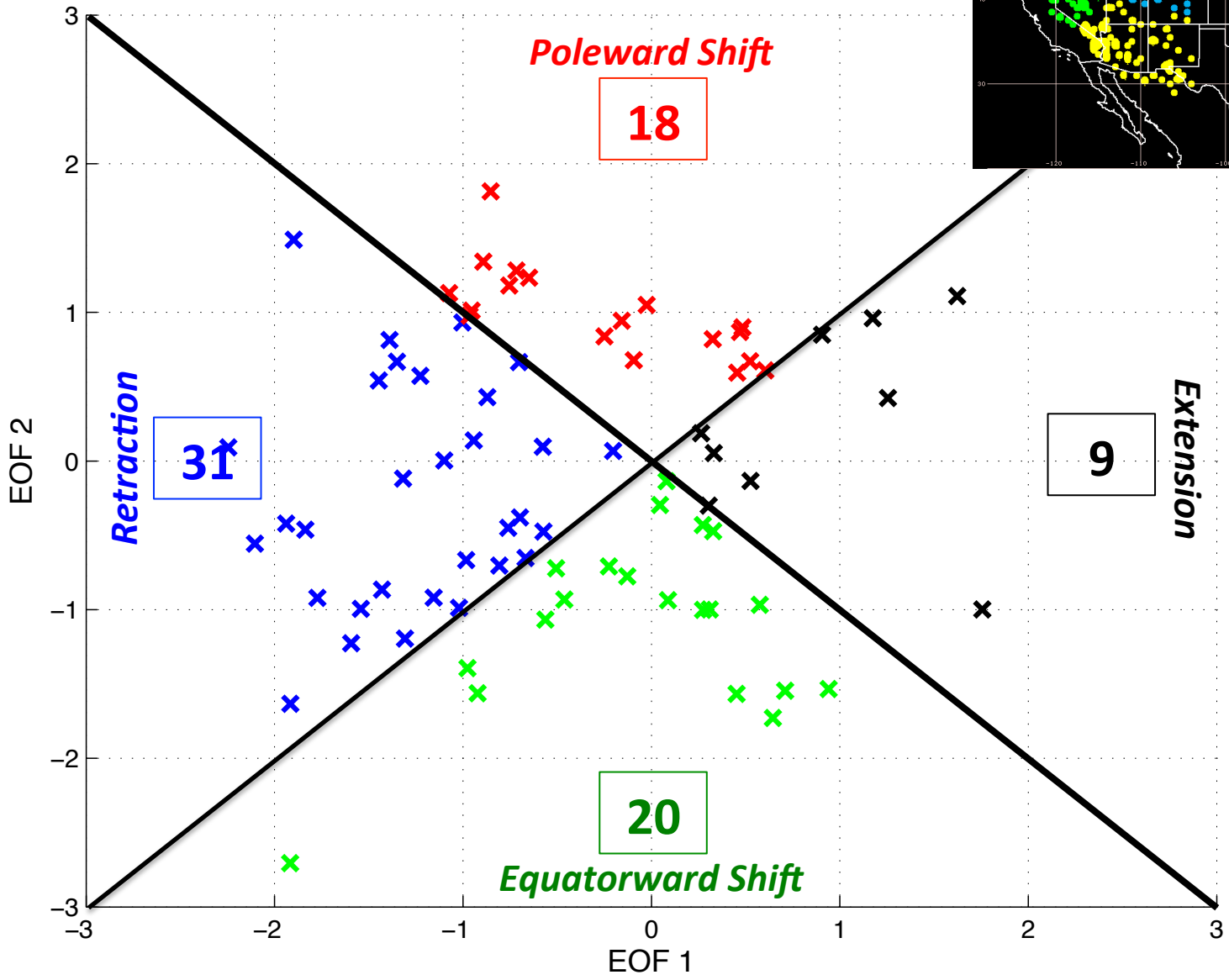
Each point is an average of the PCs for 3–7 days prior to the event

173 events

Western U.S. – Pacific NW Cluster (1)

** X's below are colored by quadrant of the phase diagram**





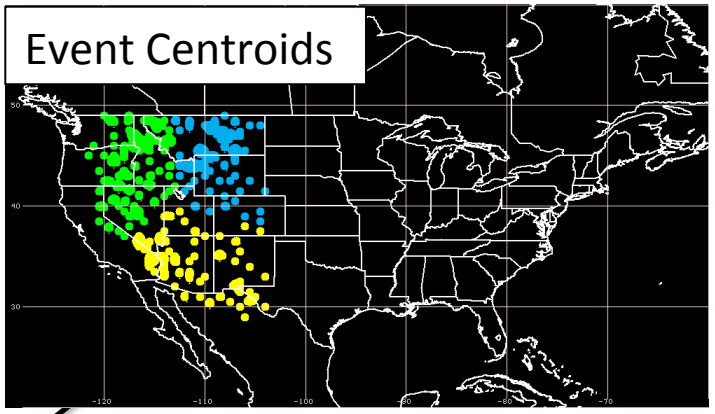
Events during Sept. – May projected onto phase diagram

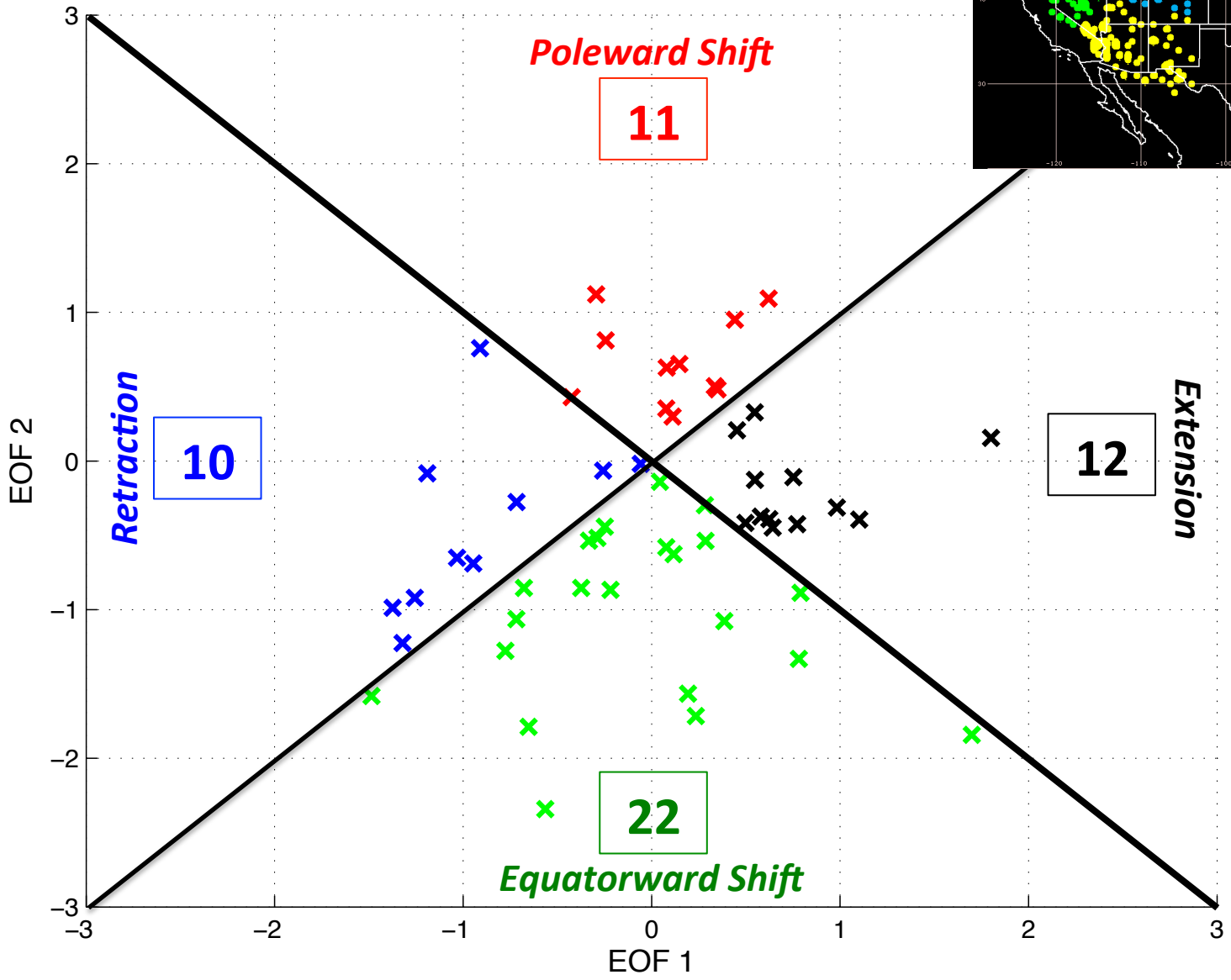
Each point is an average of the PCs for 3–7 days prior to the event

78 events

Western U.S. – N. Rockies Cluster (2)

** X's below are colored by quadrant of the phase diagram**





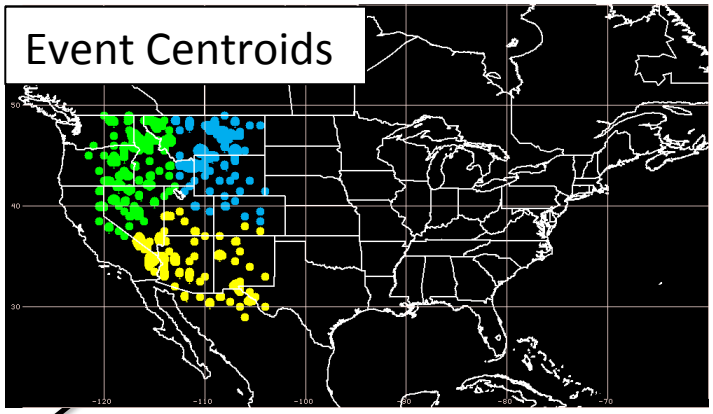
Events during Sept. – May projected onto phase diagram

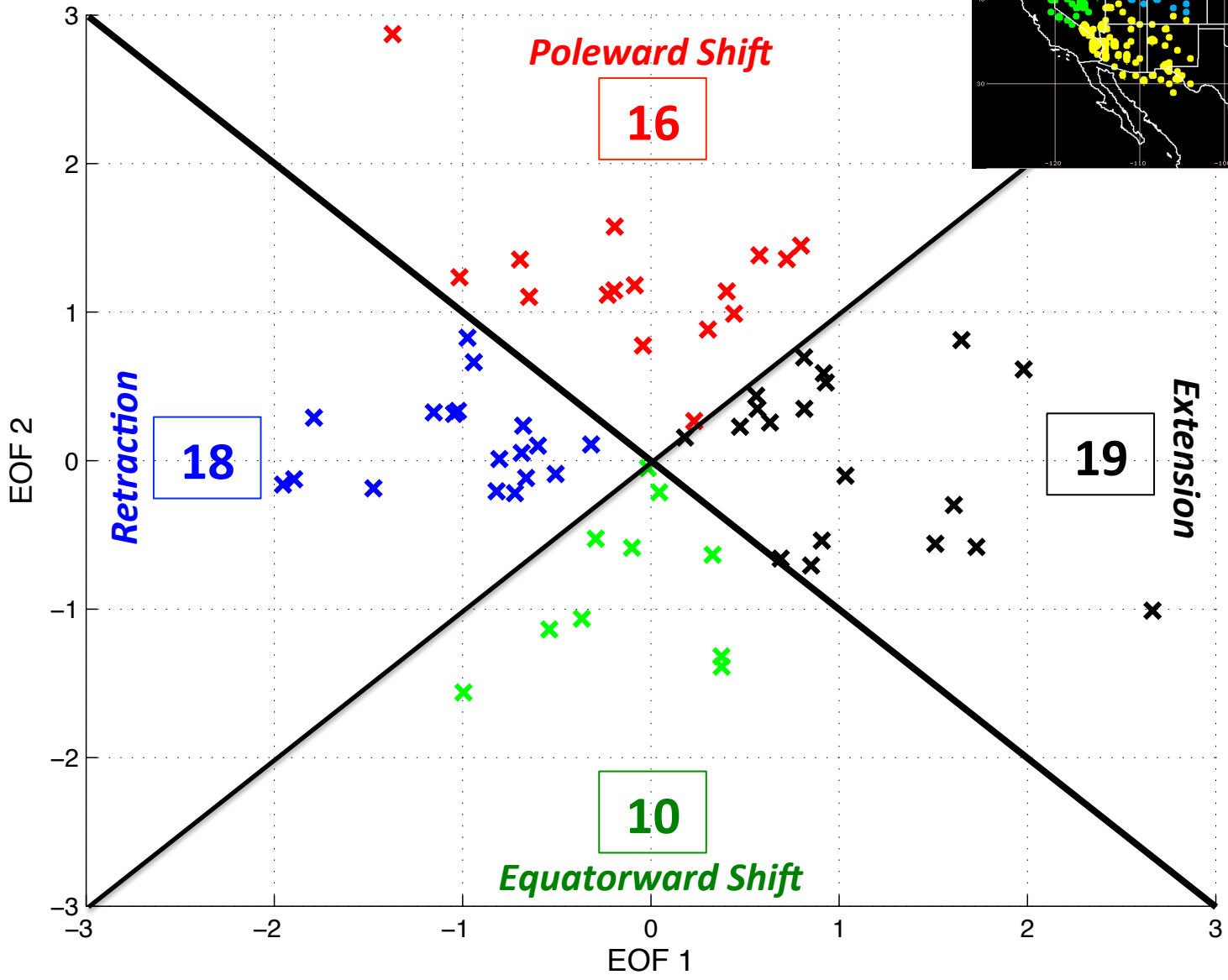
Each point is an average of the PCs for 3–7 days prior to the event

55 events

Western U.S. – Southwest Cluster (3)

** X's below are colored by quadrant of the phase diagram**





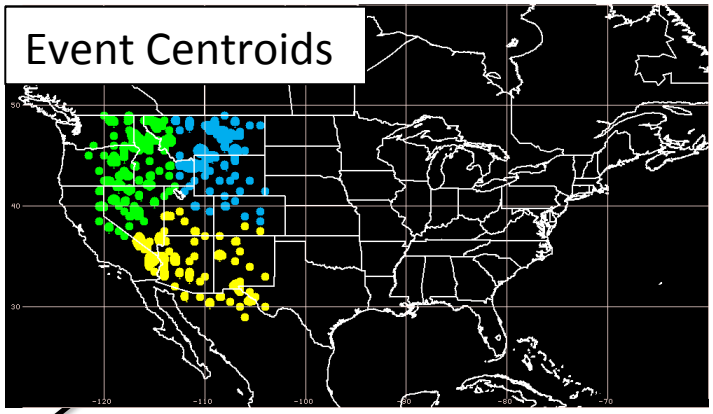
Events during Sept. – May projected onto phase diagram

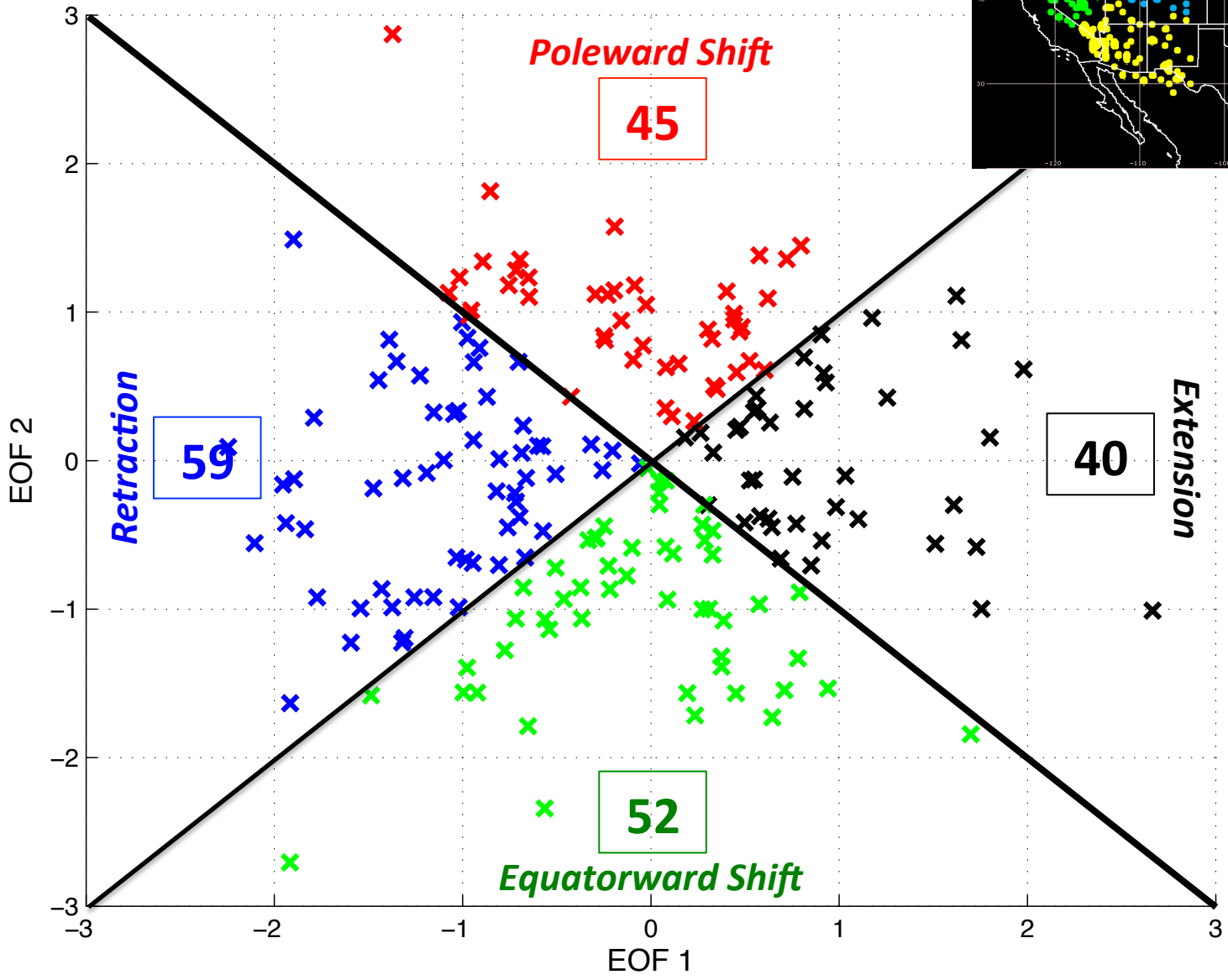
Each point is an average of the PCs for 3–7 days prior to the event

63 events

Western U.S. – All Events

** X's below are colored by quadrant of the phase diagram**





Events during Sept. – May projected onto phase diagram

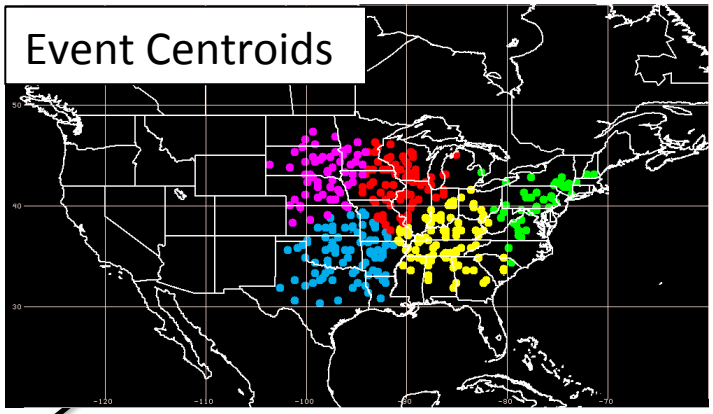
Each point is an average of the PCs for 3–7 days prior to the event

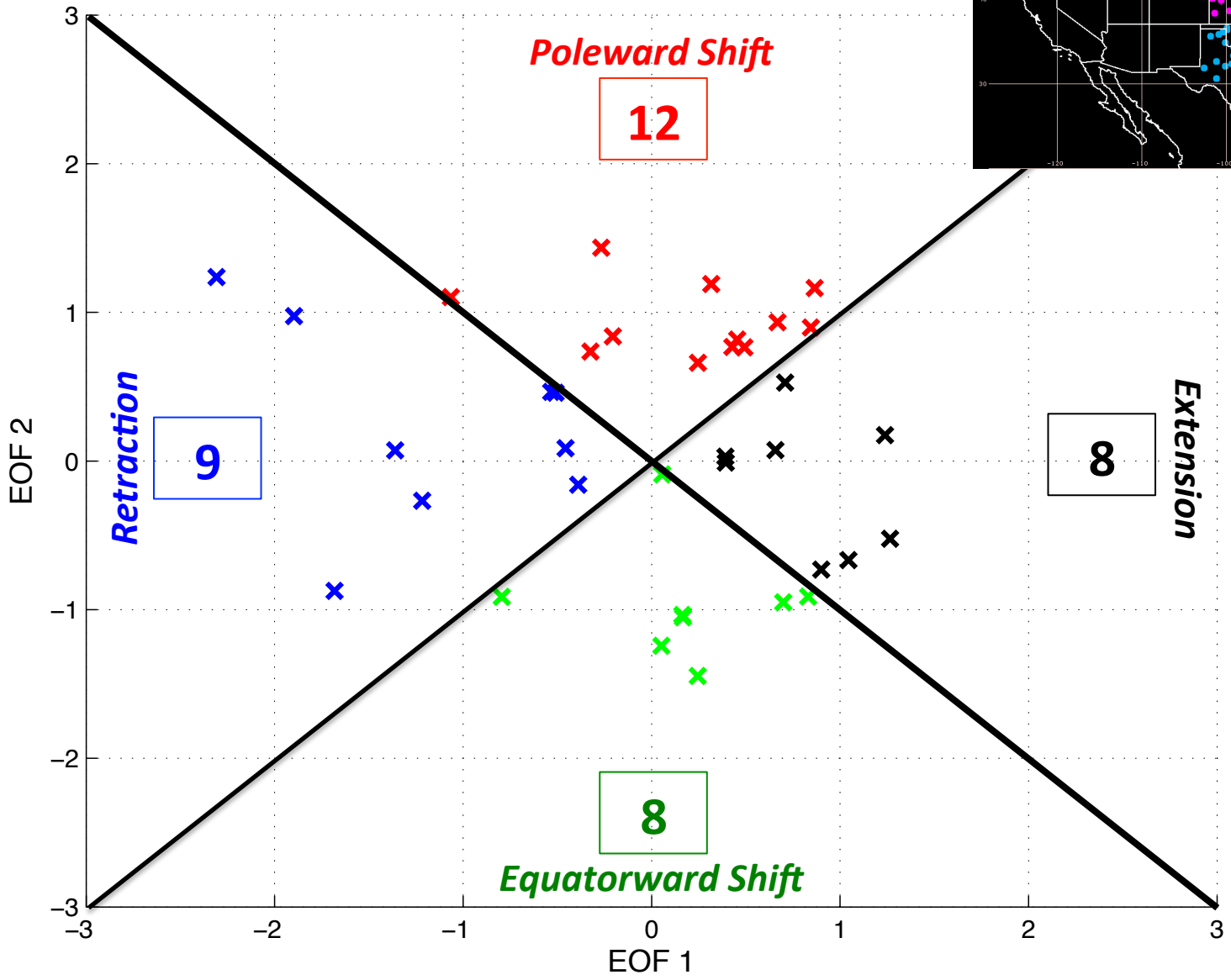
196 events

EXTREME PRECIP. EVENTS

Eastern U.S. – Northeast Cluster (1)

** X's below are colored by quadrant of the phase diagram**





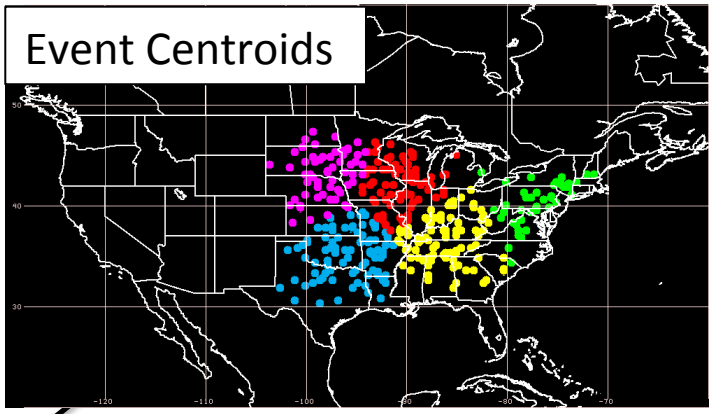
Events during Sept. – May projected onto phase diagram

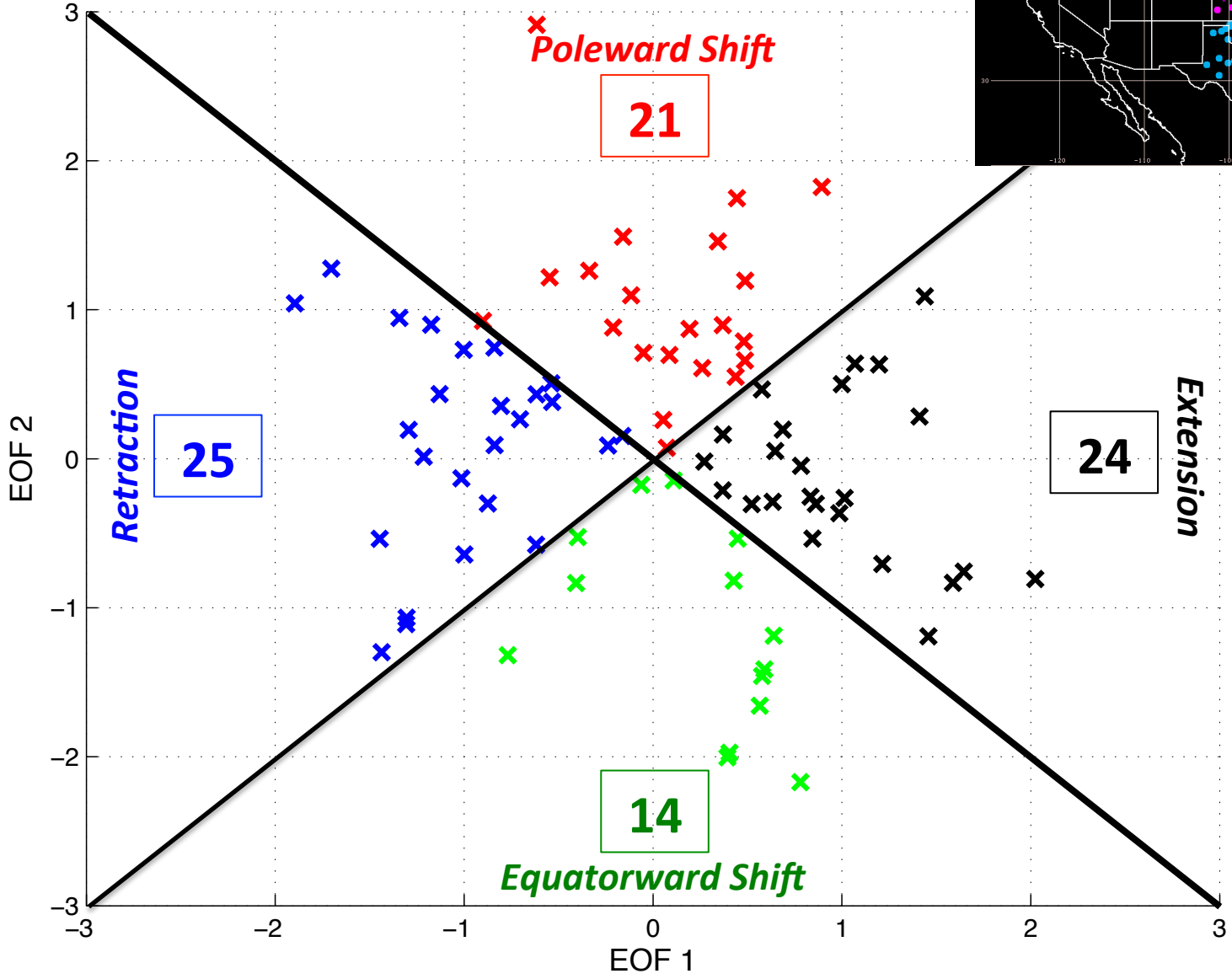
Each point is an average of the PCs for 3–7 days prior to the event

37 events

Eastern U.S. – S. Plains Cluster (2)

** X's below are colored by quadrant of the phase diagram**





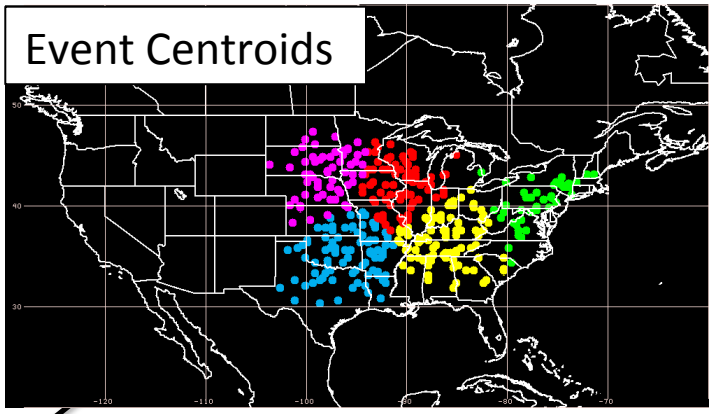
Events during Sept. – May projected onto phase diagram

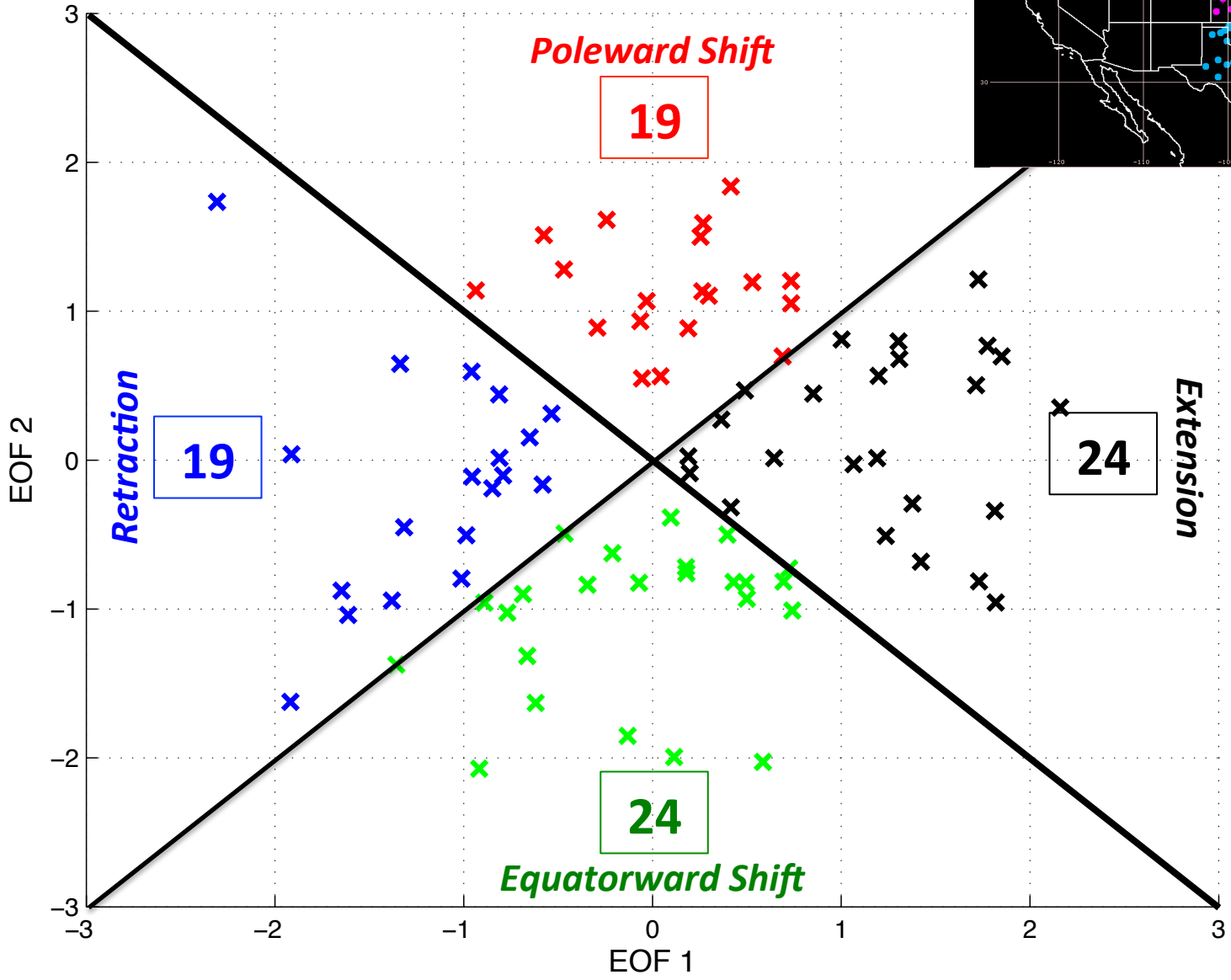
Each point is an average of the PCs for 3–7 days prior to the event

84 events

Eastern U.S. – Midwest Cluster (3)

**** X's below are colored by quadrant of the phase diagram****





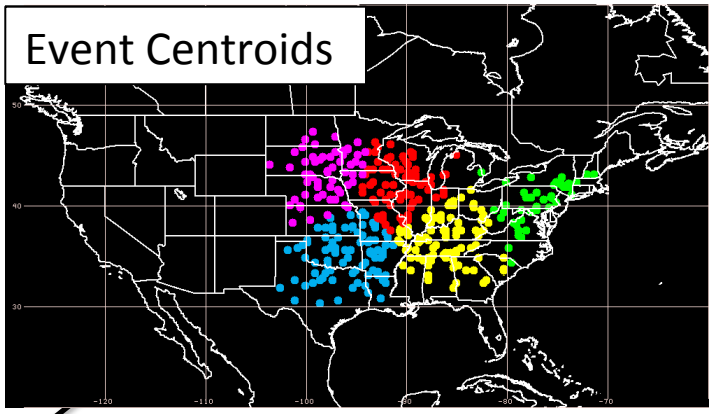
Events during Sept. – May projected onto phase diagram

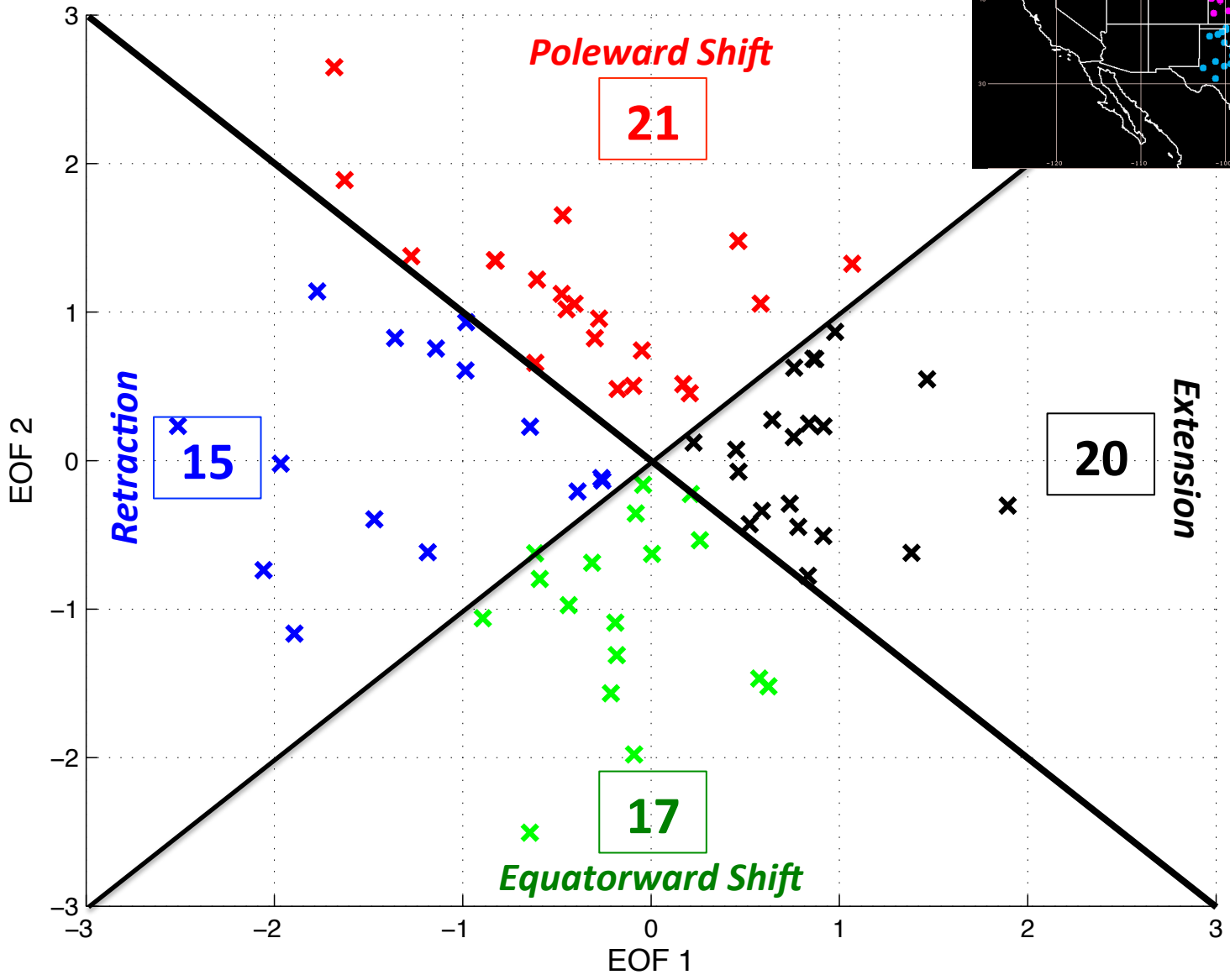
Each point is an average of the PCs for 3–7 days prior to the event

86 events

Eastern U.S. – Southeast Cluster (4)

** X's below are colored by quadrant of the phase diagram**





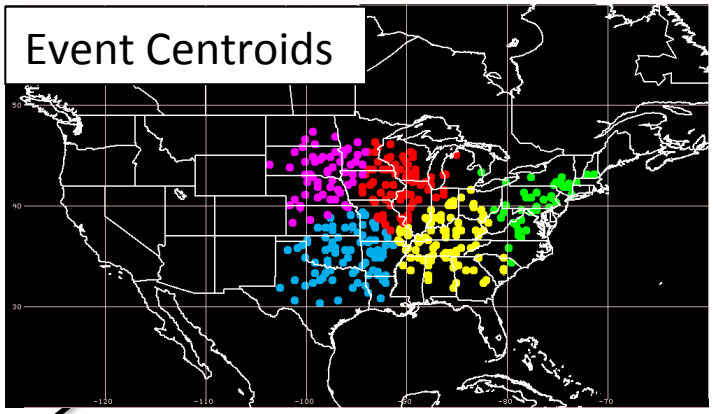
Events during Sept. – May projected onto phase diagram

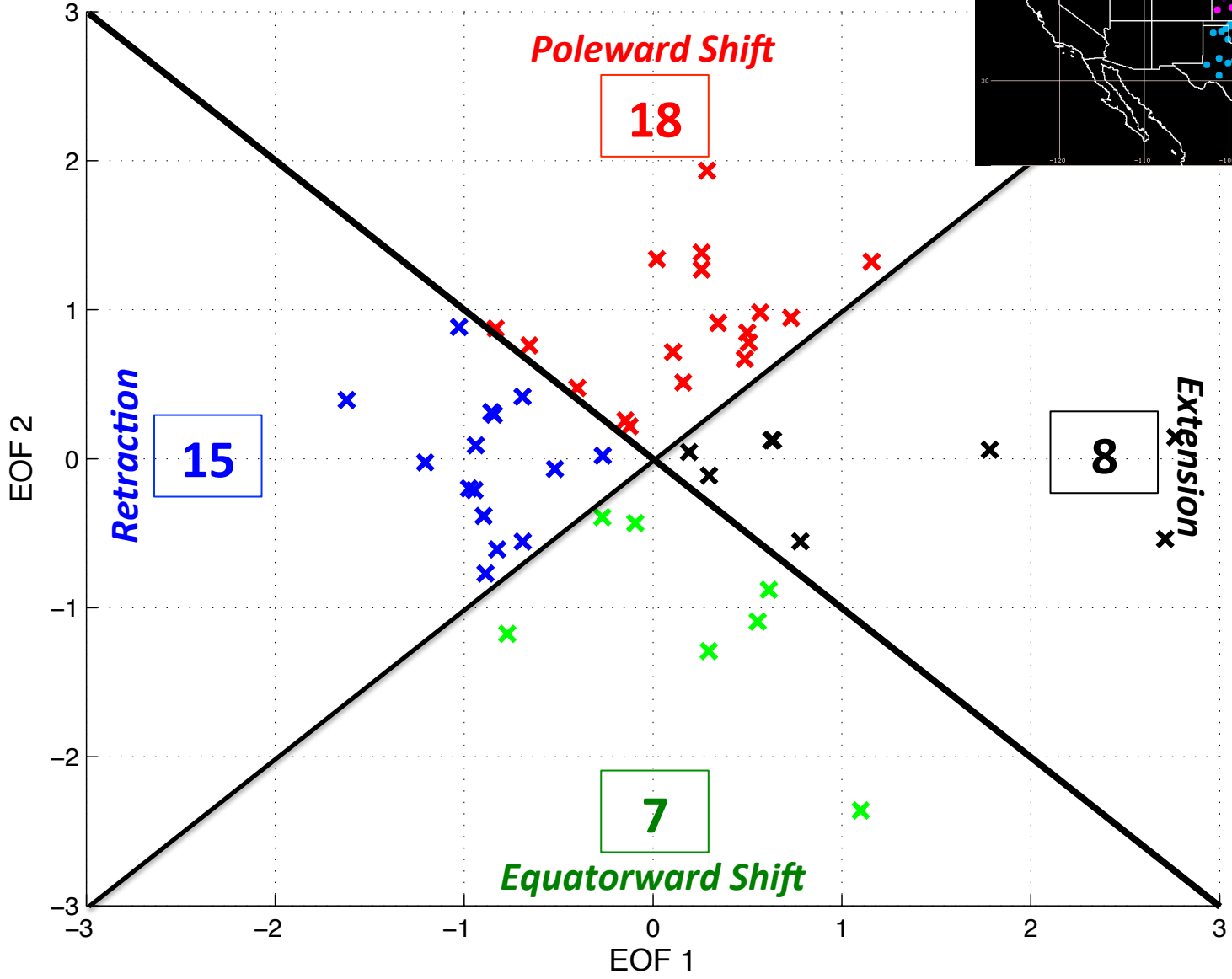
Each point is an average of the PCs for 3–7 days prior to the event

73 events

Eastern U.S. – N. Plains Cluster (5)

** X's below are colored by quadrant of the phase diagram**





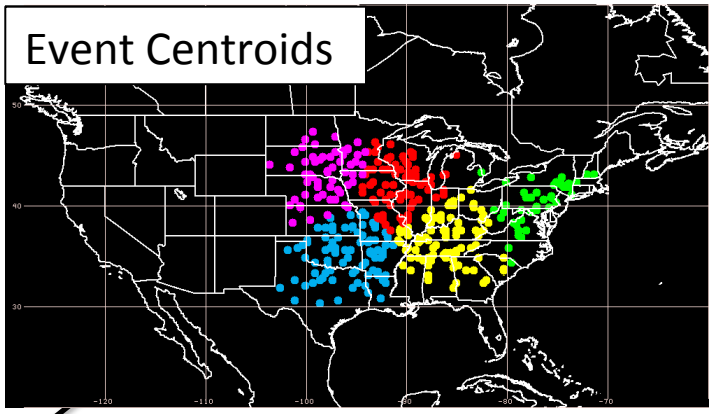
Events during Sept. – May projected onto phase diagram

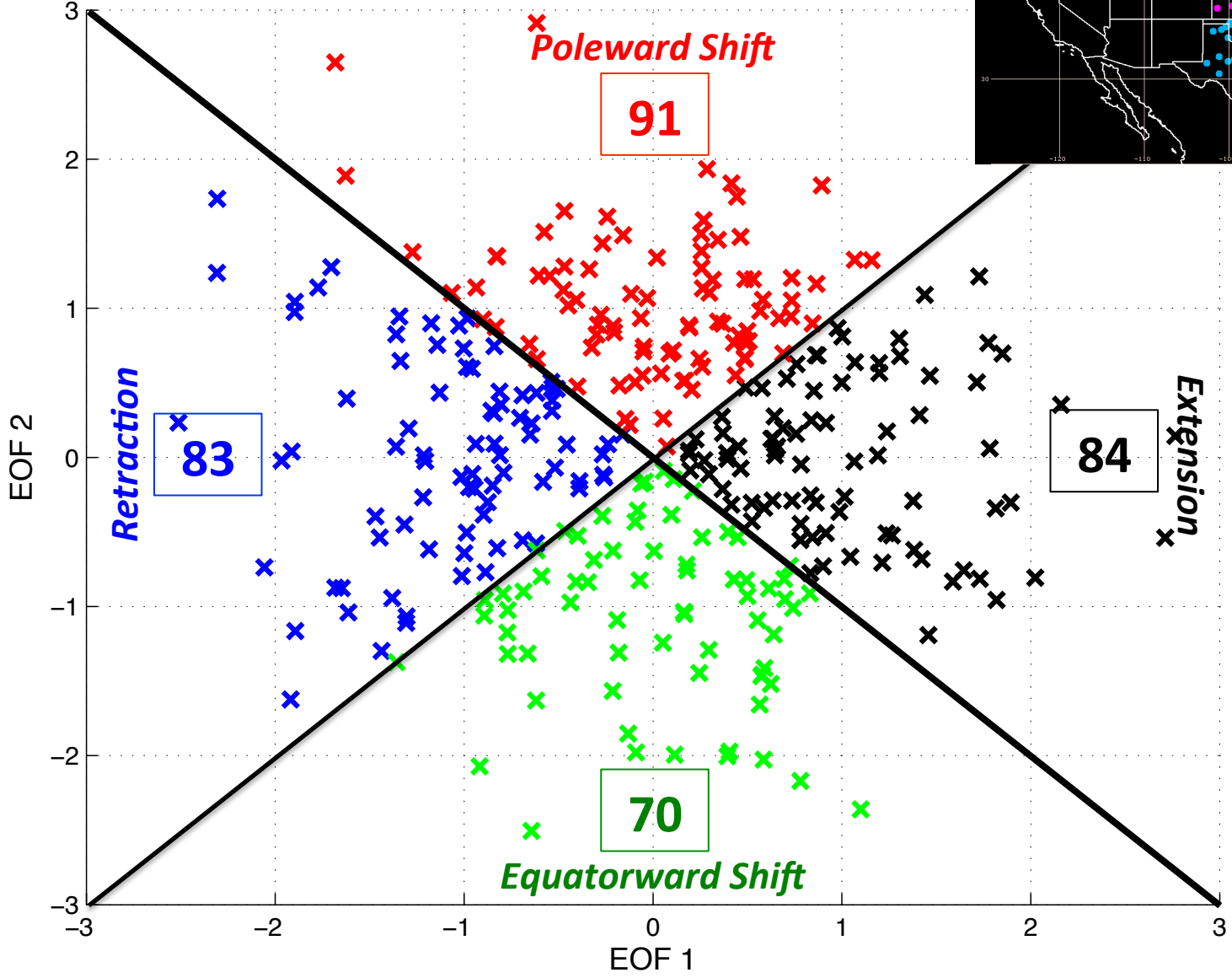
Each point is an average of the PCs for 3–7 days prior to the event

48 events

Eastern U.S. – All Events

** X's below are colored by quadrant of the phase diagram**





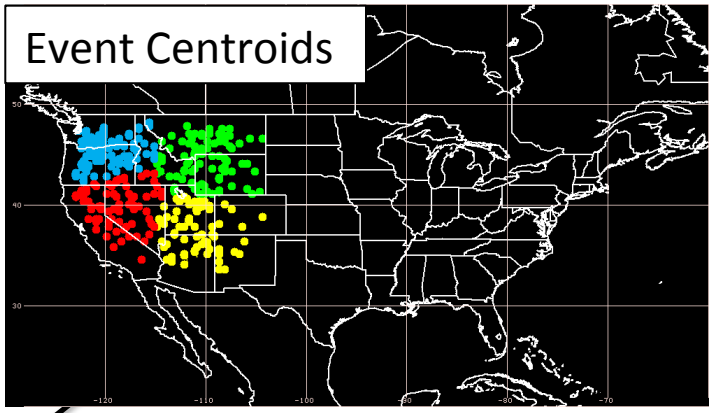
Events during Sept. – May projected onto phase diagram

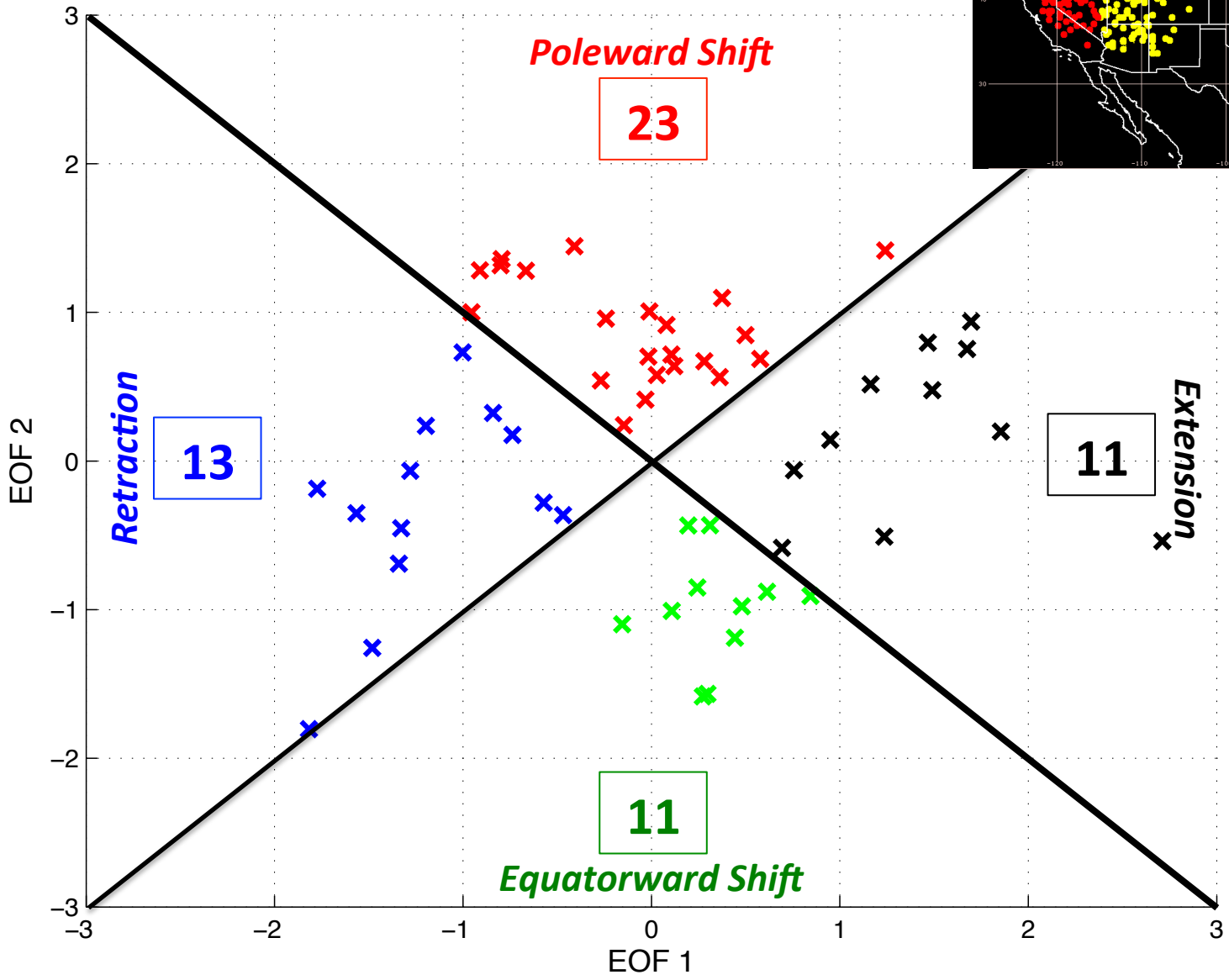
Each point is an average of the PCs for 3–7 days prior to the event

328 events

Western U.S. – N. Rockies Cluster (1)

** X's below are colored by quadrant of the phase diagram**





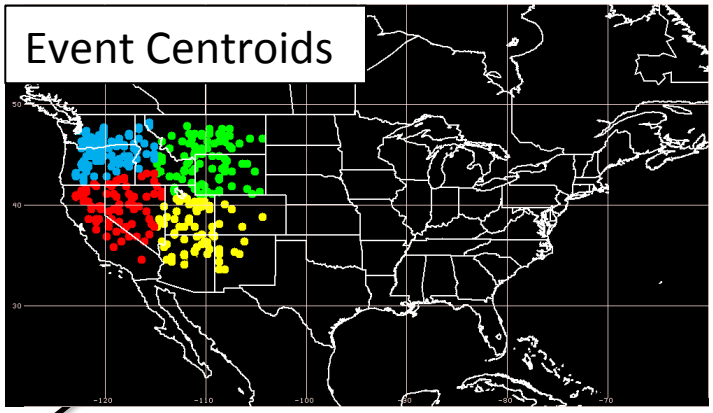
Events during Sept. – May projected onto phase diagram

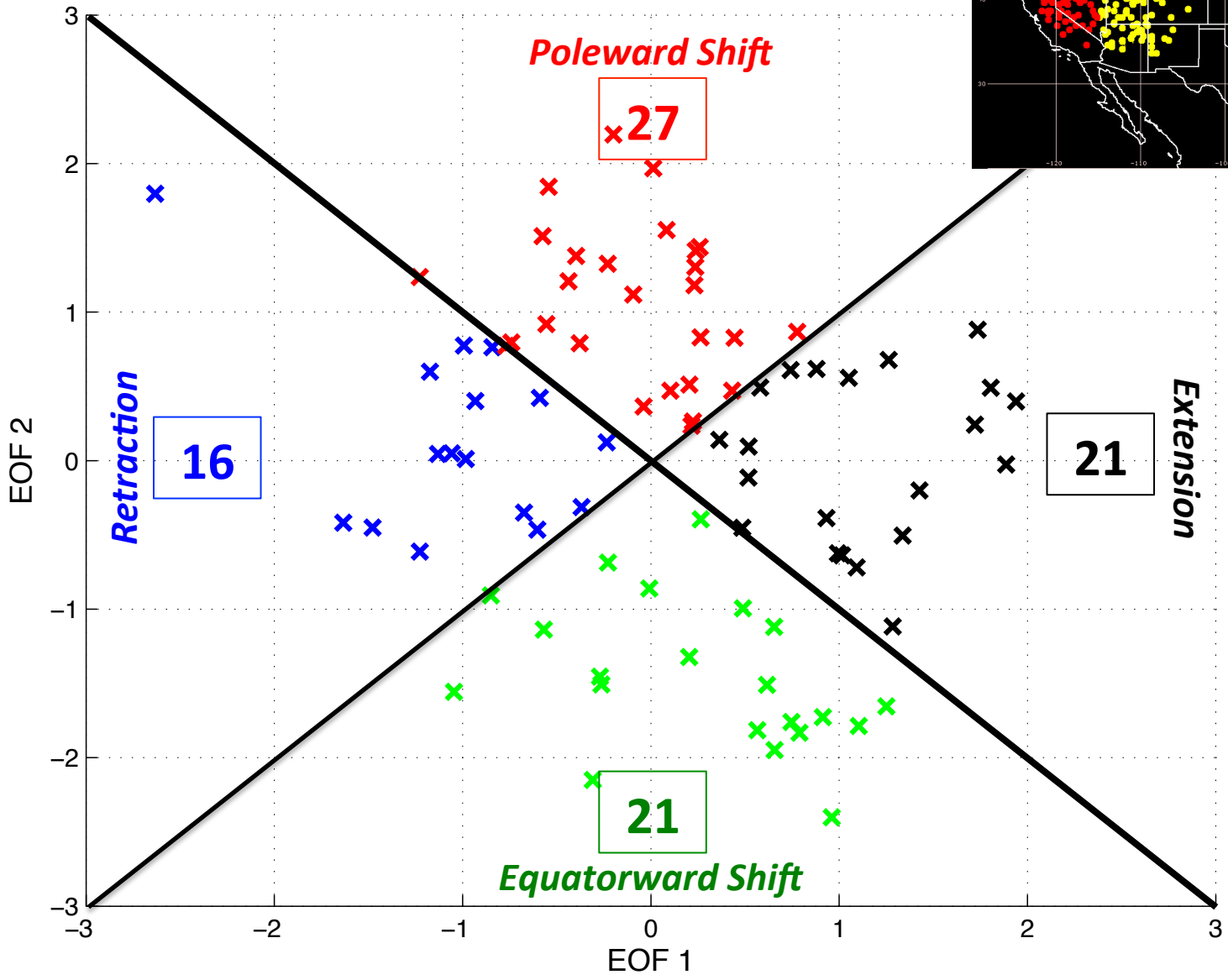
Each point is an average of the PCs for 3–7 days prior to the event

58 events

Western U.S. – Pacific NW Cluster (2)

** X's below are colored by quadrant of the phase diagram**





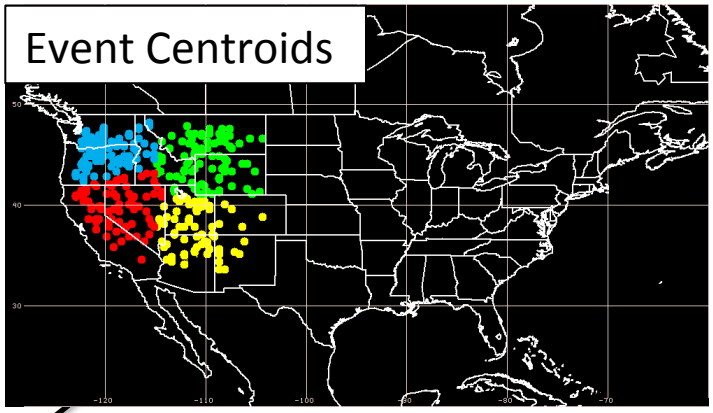
Events during Sept. – May projected onto phase diagram

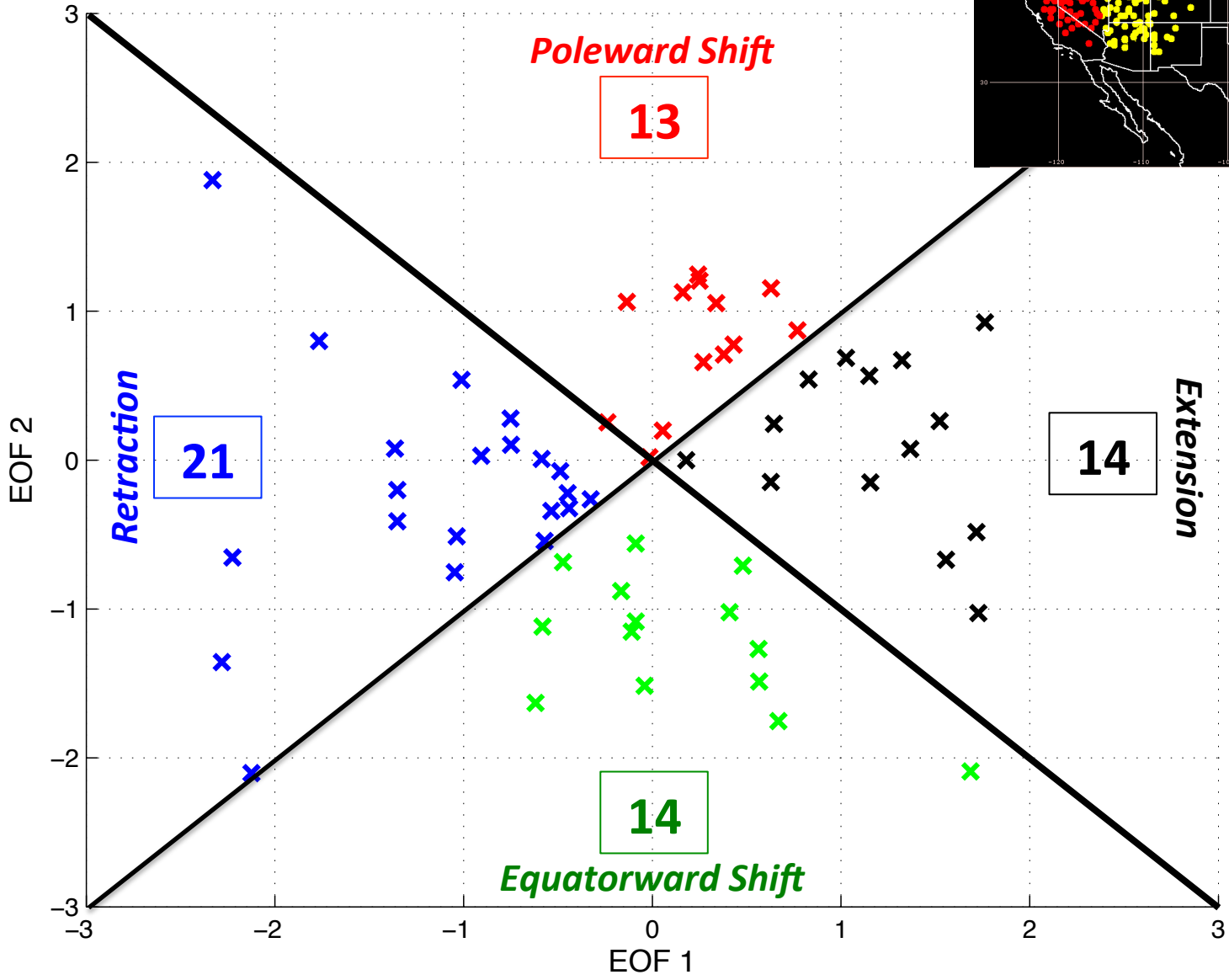
Each point is an average of the PCs for 3–7 days prior to the event

85 events

Western U.S. – S. Rockies Cluster (3)

** X's below are colored by quadrant of the phase diagram**





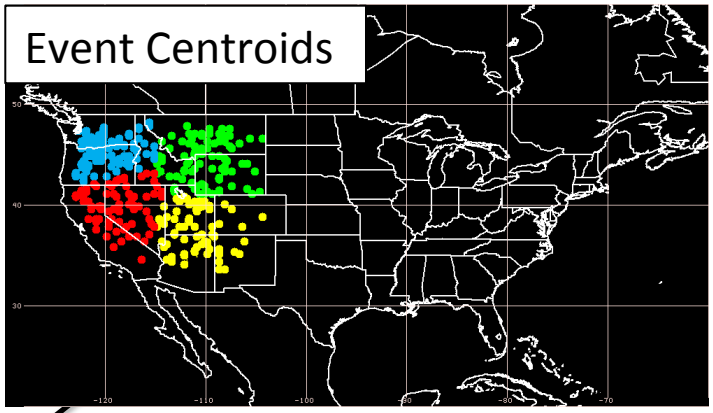
Events during Sept. – May projected onto phase diagram

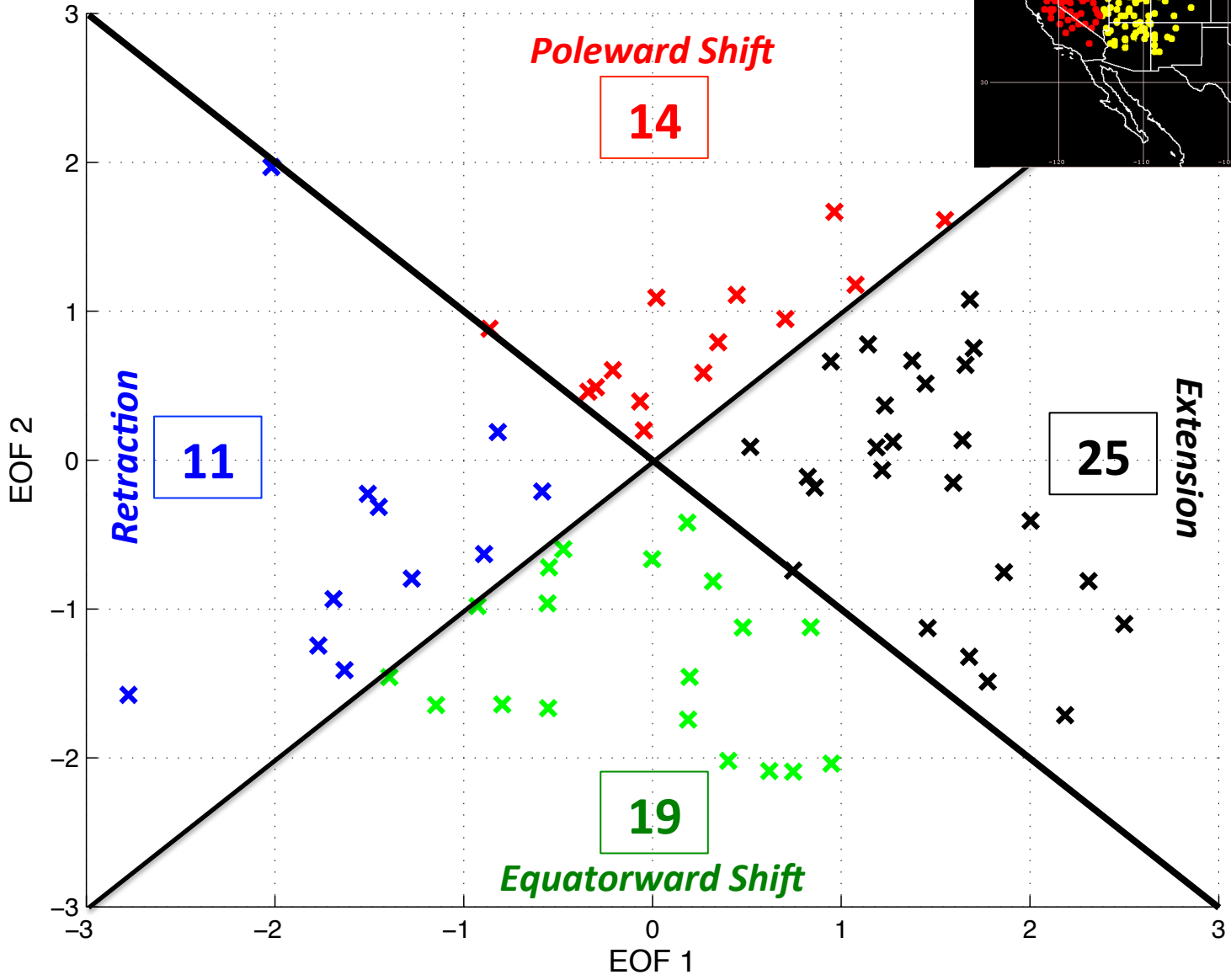
Each point is an average of the PCs for 3–7 days prior to the event

62 events

Western U.S. – CA/NV Cluster (4)

** X's below are colored by quadrant of the phase diagram**





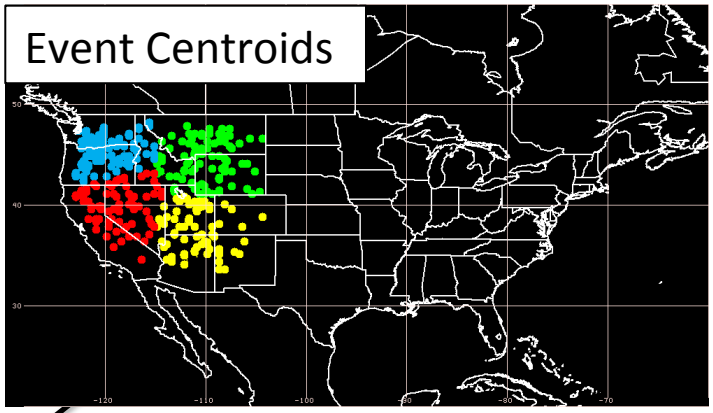
Events during Sept. – May projected onto phase diagram

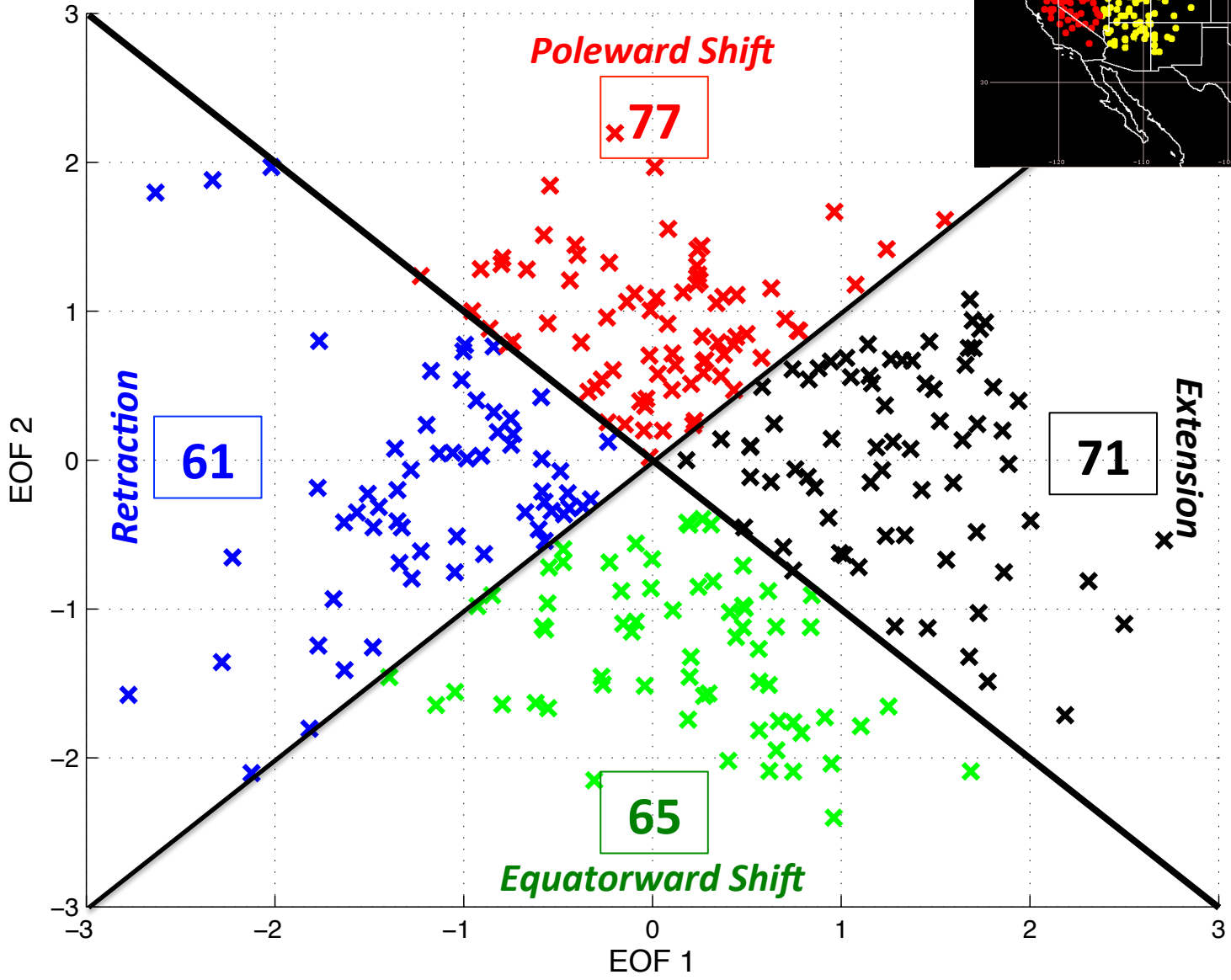
Each point is an average of the PCs for 3–7 days prior to the event

69 events

Western U.S. – All Events

** X's below are colored by quadrant of the phase diagram**





Events during Sept. – May projected onto phase diagram

Each point is an average of the PCs for 3–7 days prior to the event

274 events