Correlation between selected features growth rate* -0.4 0.2 0.2 0.2 -0.0 0.1 0.1 -0.2 -0.3 0.0 0.1 0.0 0.4 -0.3 -0.1 std IWP* - 0.4 1.0 0.4 0.3 -0.1 -0.1 -0.1 0.3 0.0 0.0 -0.1 0.1 -0.1 0.3 std IWP (total) - 0.2 0.4 1.0 0.0 -0.2 -0.0 0.5 0.1 -0.2 0.2 0.1 -0.1 0.3 -0.0 -0.1 0.4 equivalent diameter* - 0.2 0.3 0.0 1.0 0.5 -0.1 -0.1 0.1 -0.1 0.3 0.0 -0.0 -0.0 0.2 0.3 -0.0 mean LWNTA* - -0.3 -0.1 1.0 0.0 0.8 -0.2 0.5 -0.0 -0.0 -0.1 -0.0 0.1 -0.1 -0.1 0.5 -0.1 -0.1 -0.1 migration distance - 0.2 -0.0 1.0 -0.3 -0.0 -0.1 0.1 -0.0 0.0 -0.0 0.2 -0.0 0.0 mean surface temp. of neighbors - 0.1 -0.1 -0.1 -0.0 -0.1 0.5 -0.0 1.0 -0.0 0.3 -0.0 -0.10.3 0.2 0.0 0.2 eccentricity (core) - 0.0 0.3 0.1 0.1 -0.1 -0.3 1.0 0.0 -0.0 0.0 0.1 -0.1 -0.1 -0.1 -0.1 mean OM700Pa* - -0.0 -0.3 -0.2 -0.0 1.0 -0.1 8.0 -0.1 -0.0 -0.0 -0.0 -0.1-0.0 0.1 -0.2 -0.1 0.3 -0.1 interaction with neighbors (max) - 0.1 0.0 0.2 0.3 0.1 0.0 1.0 -0.0 0.1 0.2 0.1 -0.0 landmask - 0.1 0.0 0.1 0.0 0.0 0.1 -0.0 1.0 0.2 -0.3 -0.0 -0.0 0.1 mean OM850hPa* - 0.0 -0.1 -0.1 -0.0 -0.1 0.0 -0.1 0.0 0.8 -0.1 1.0 -0.1 -0.0 -0.0 -0.1 std U10m - 0.1 0.1 0.3 -0.0 -0.1 -0.0 0.3 0.1 -0.10.1 -0.3 -0.1 1.0 0.0 -0.0 0.2 interaction with neighbors (mean) - -0.2 -0.0 0.2 0.2 -0.0 -0.0 -0.0 0.5 0.0 -0.1 0.2 0.0 1.0 0.6 0.0 mean surface temperature* - -0.3 -0.1 -0.1 0.3 0.8 -0.0 0.0 -0.1 -0.0 0.1 -0.0 -0.0 -0.0 0.6 1.0 -0.1 -0.1 -0.2 -0.0 0.1 -0.1 0.4 0.3 0.4 -0.0 -0.1 0.2 0.2 0.2 0.0 -0.11.0 std IWP* std IWP (total) migration distance $\sqrt{A_{max}}$ growth rate* mean LWNTA* temp. of neighbors eccentricity (core) mean OM700Pa* mean OM850hPa* std U10m equivalent diameter* interaction with neighbors (max) andmask interaction with neighbors (mean) surface temperature*

1.00

- 0.75

- 0.50

- 0.25

- 0.00

- **–**0.25

- **–**0.50

-0.75

-1.00

Correlation factor [1]