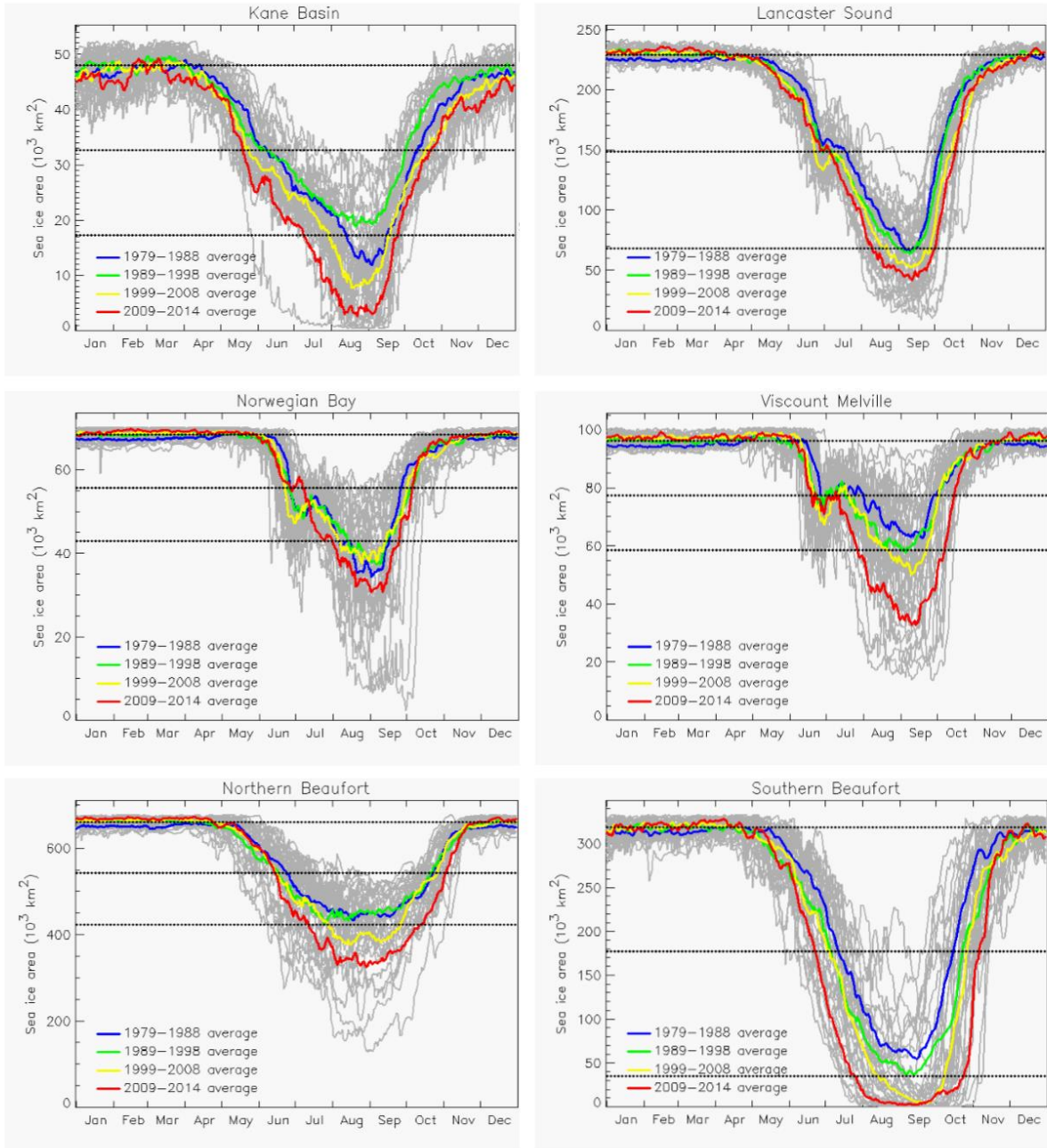
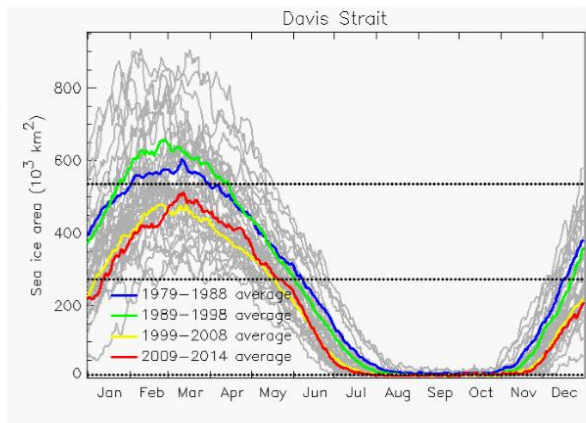
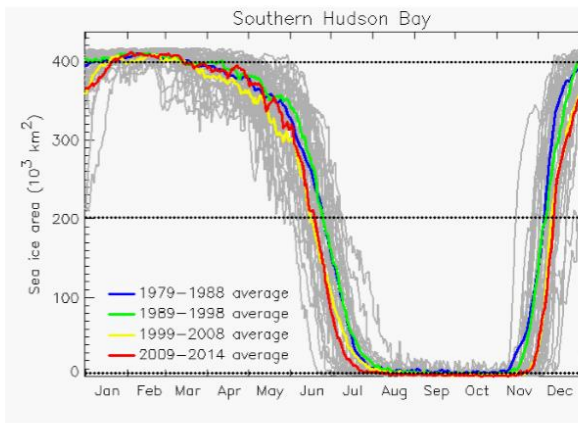
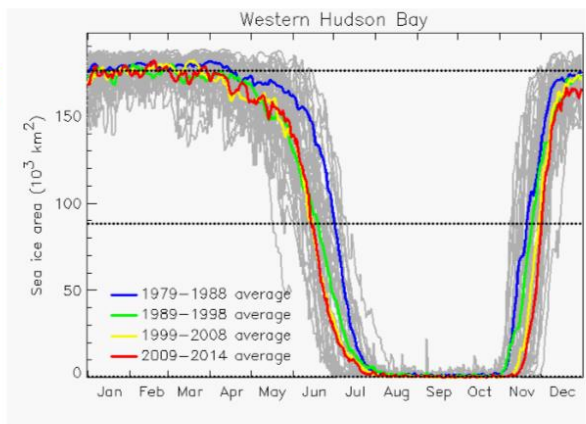
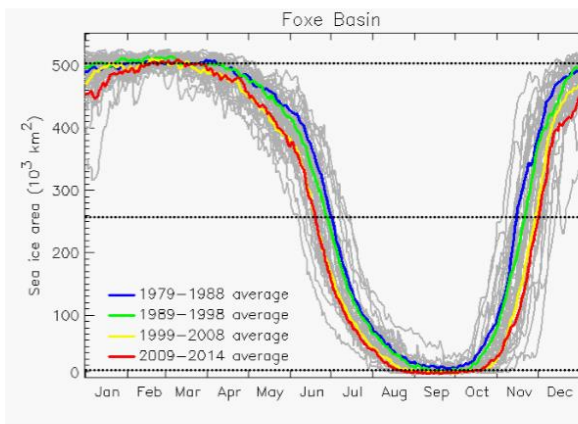
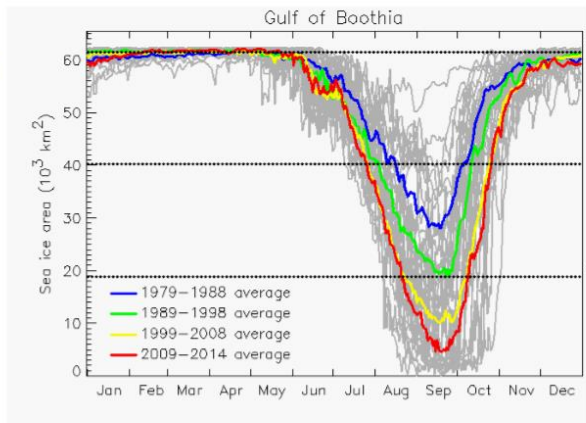
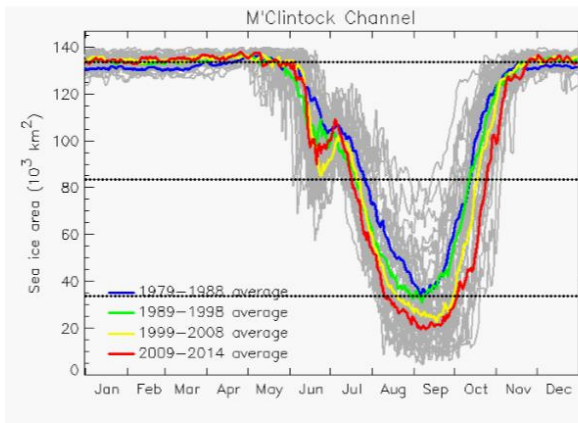
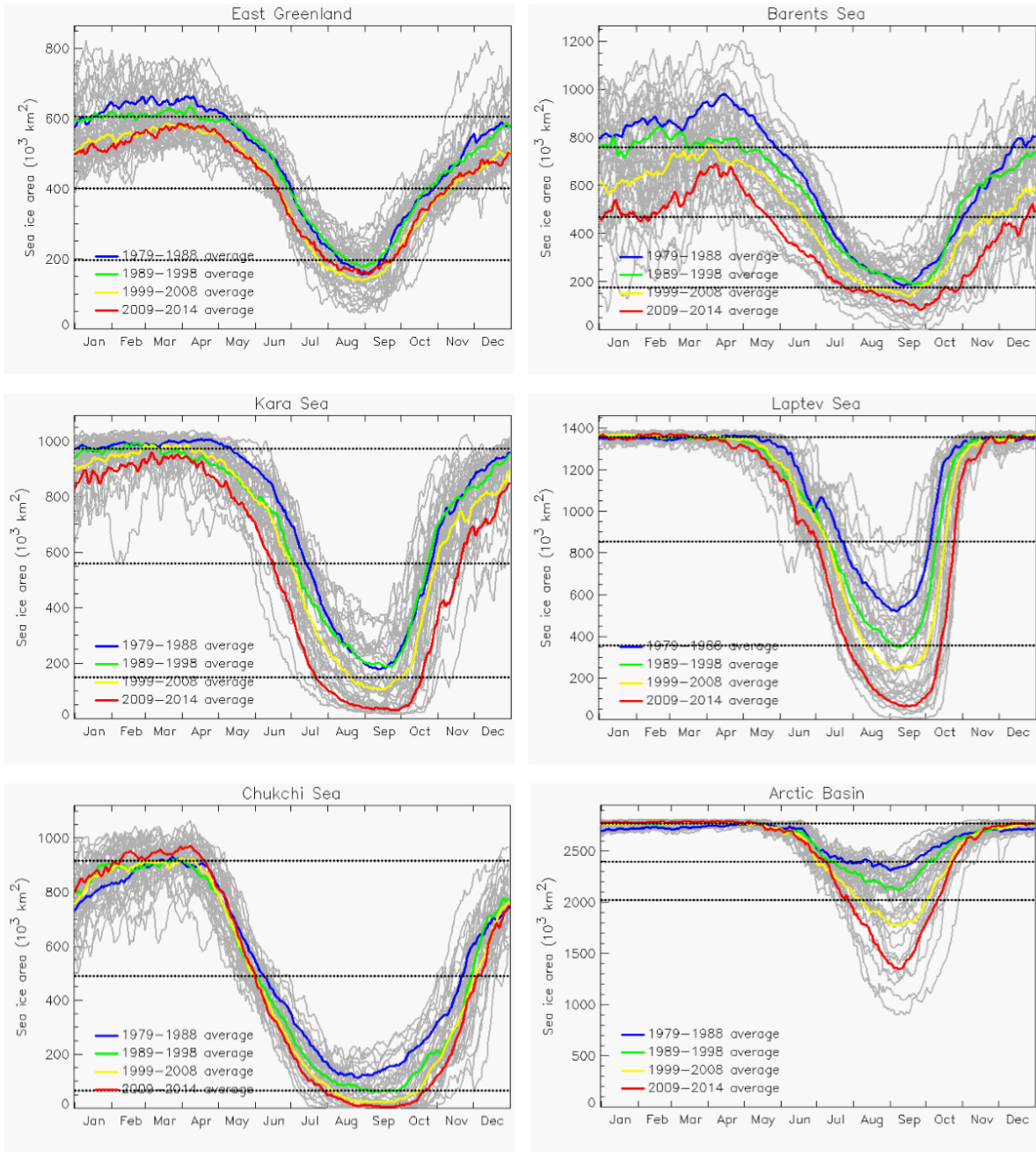
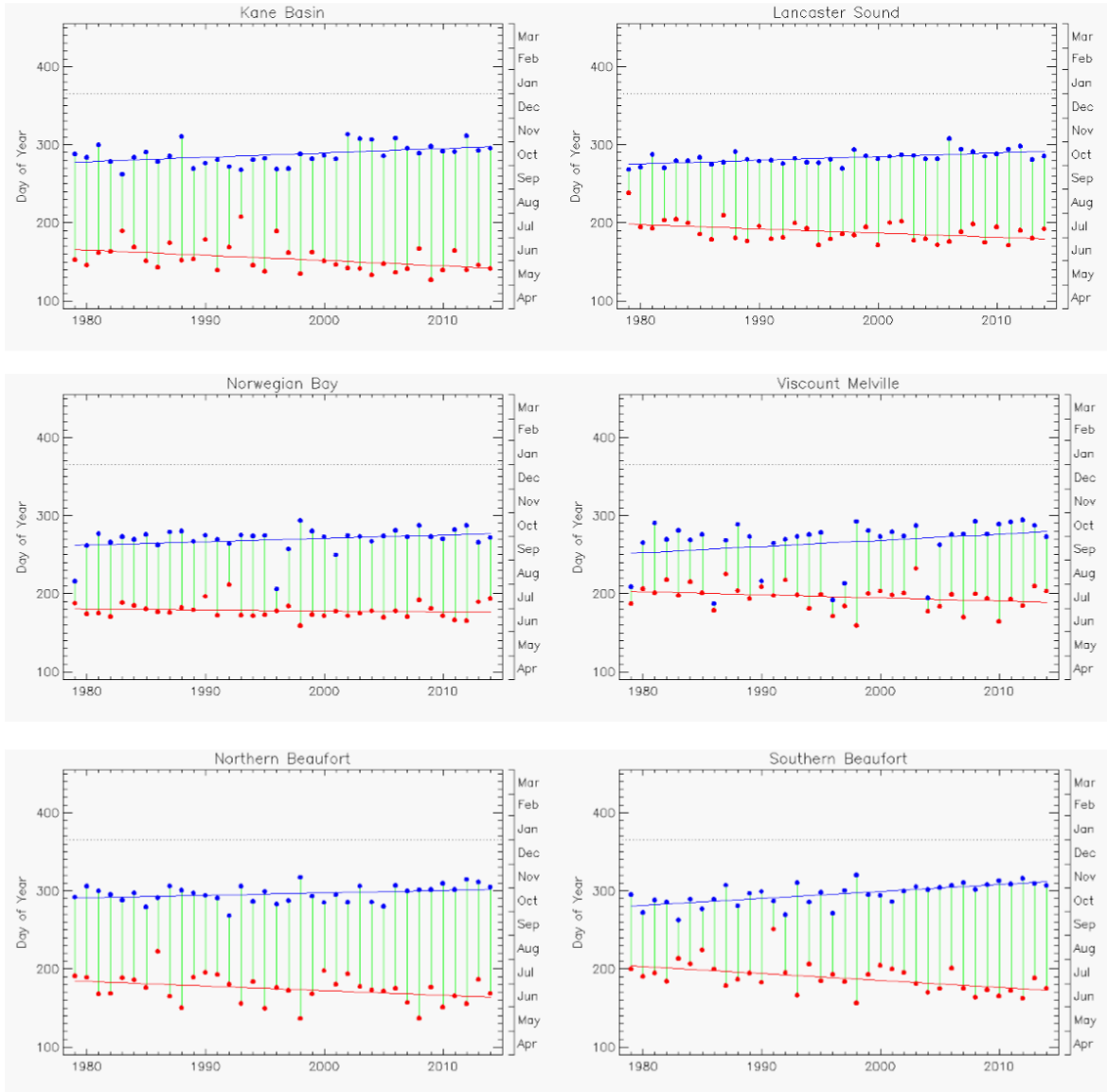
Supplement

A. Daily Sea-Ice Area

  5   Daily sea-ice area, January-December, 1979-2014 (gray curves), by region (all depths). Colored
       curves are decadal averages as indicated. Upper horizontal dotted line is average sea-ice area in
       March; lower horizontal dotted line is average sea-ice area in September; middle horizontal
       dotted line is threshold for determining dates of spring sea-ice retreat and fall sea-ice advance.
       See Fig. 2 for Baffin Bay region. See Fig. 1 and Table 1 for locations of regions.

Daily sea-ice area by region (continued).

15   Daily sea-ice area by region (continued).

B. Dates of Sea-Ice Retreat and Advance

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Dates of sea-ice retreat (red) and sea-ice advance (blue) for 1979-2014, by region (all depths). The red and blue lines are least-squares fits. The vertical green lines indicate the time interval between retreat and advance (i.e., length of summer season). See Fig. 4 for Baffin Bay region. See Table 3 for trends.

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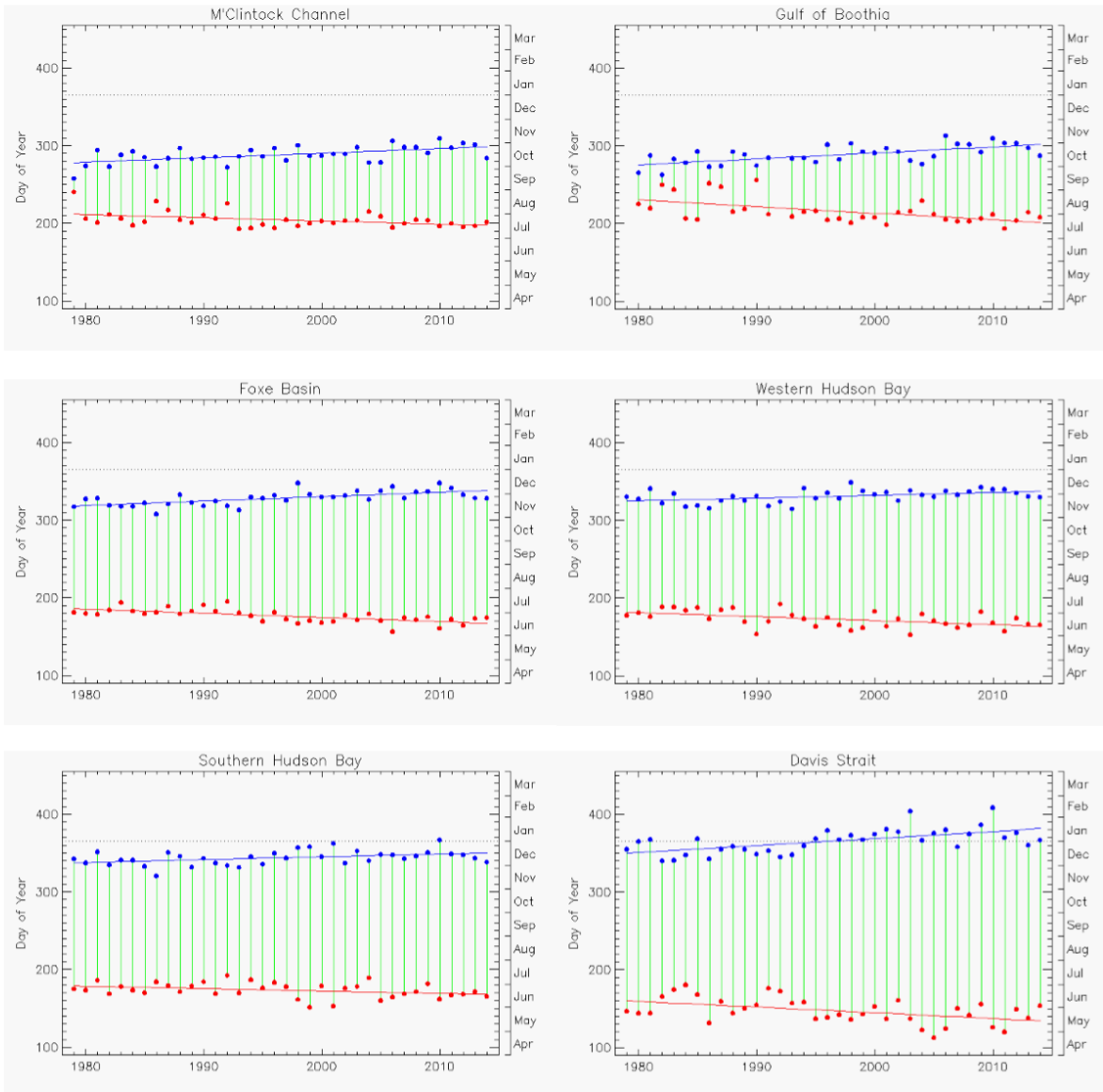
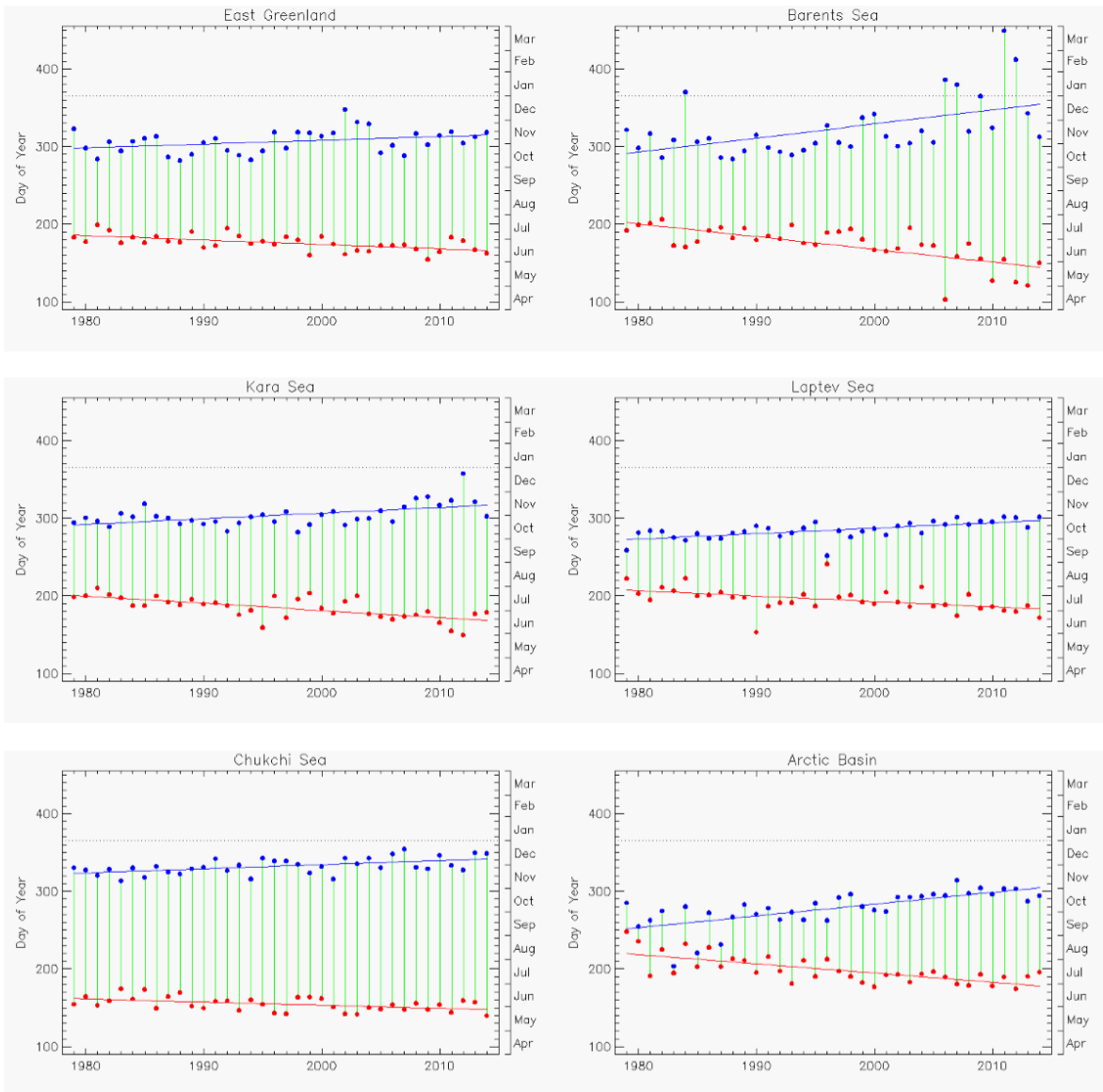
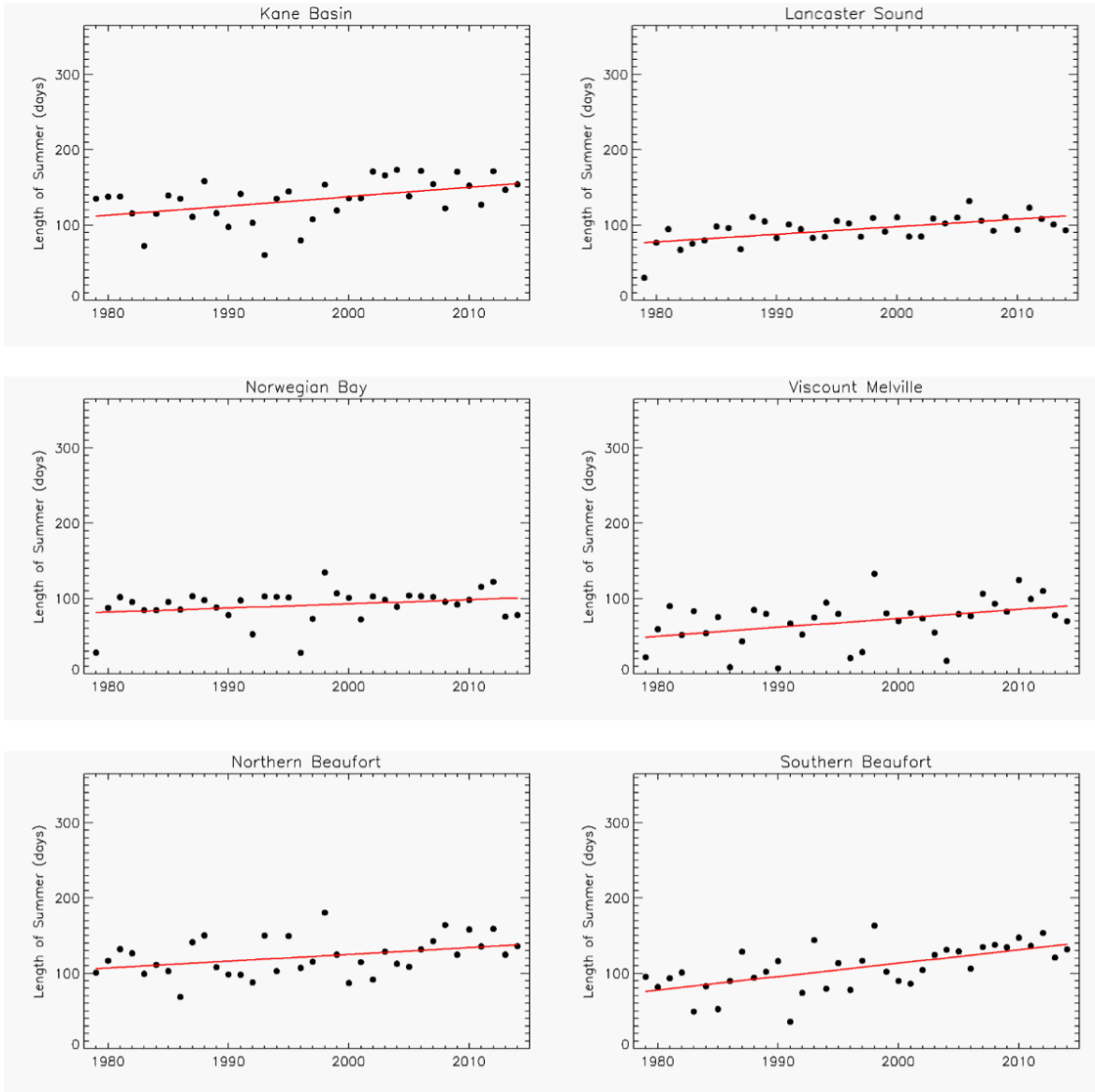

Dates of sea-ice retreat and advance, by region (continued).

30   Dates of sea-ice retreat and advance, by region (continued).

C. Length of the Summer Season

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Length of the summer season (from spring sea-ice retreat to fall sea-ice advance) vs. year, by region (all depths), with least-squares line in red. See Fig. 5 for Baffin Bay region. See Table 3 for trends.

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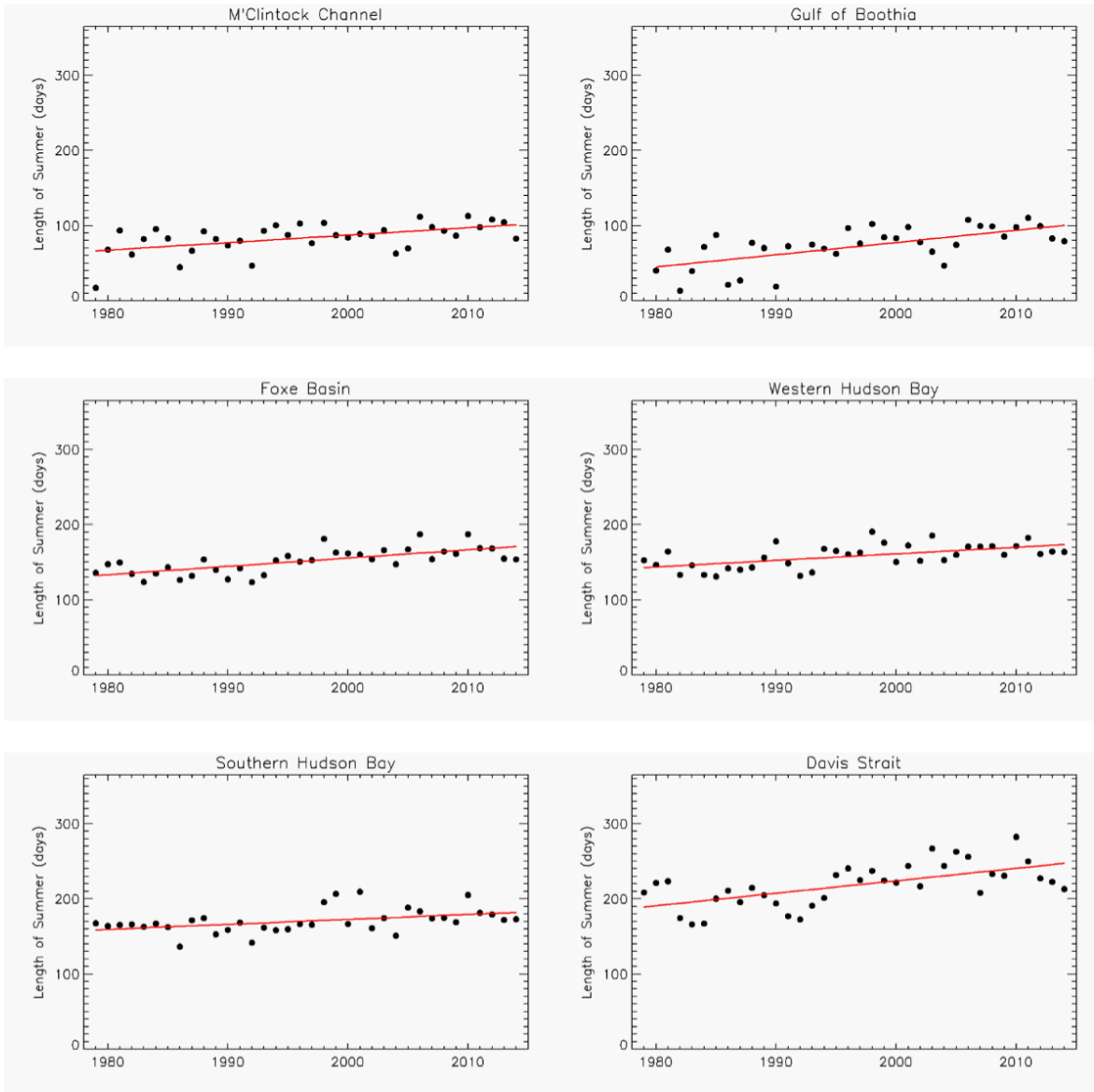
Length of the summer season, by region (continued).

Length of the summer season, by region (continued).

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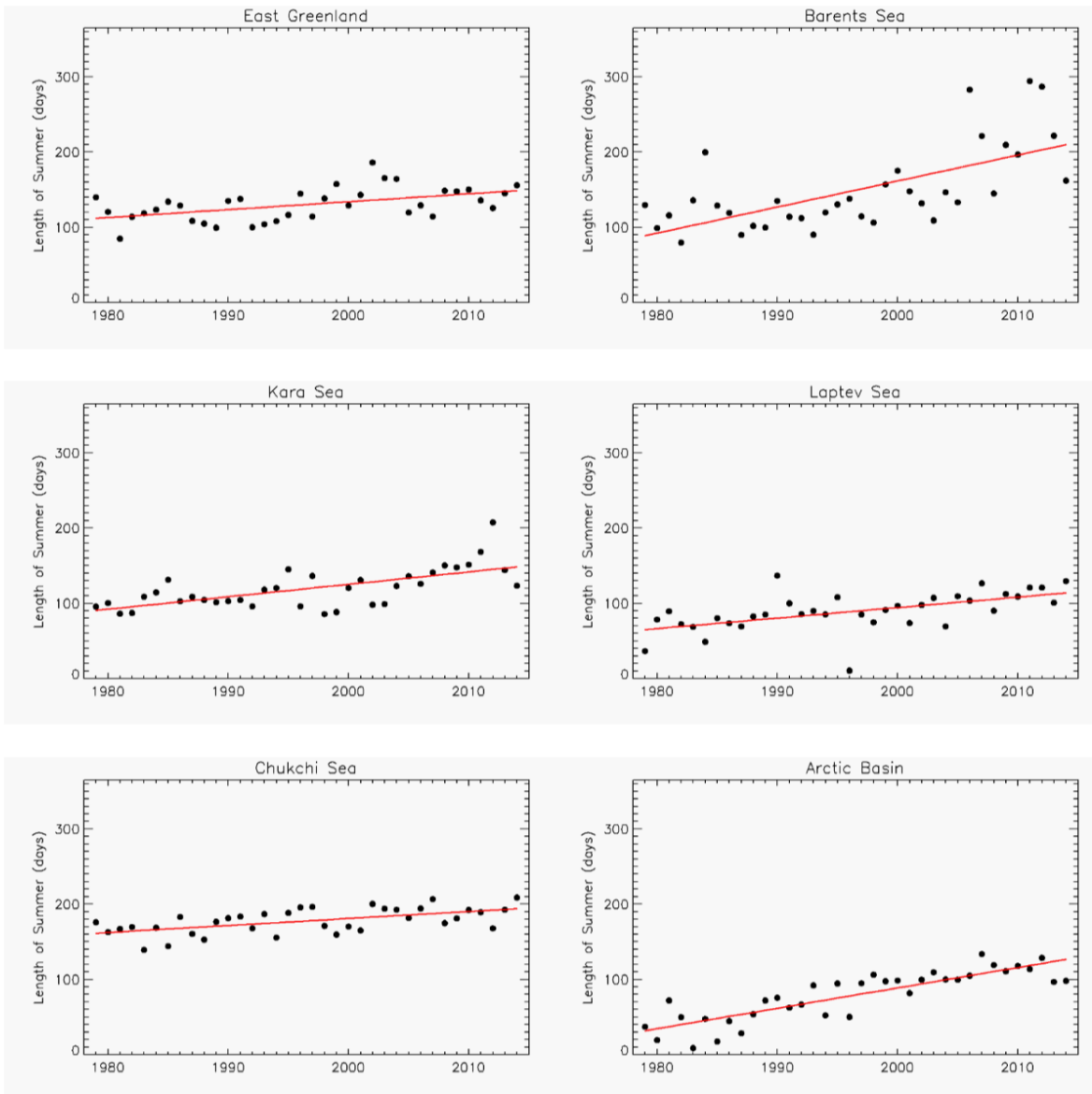
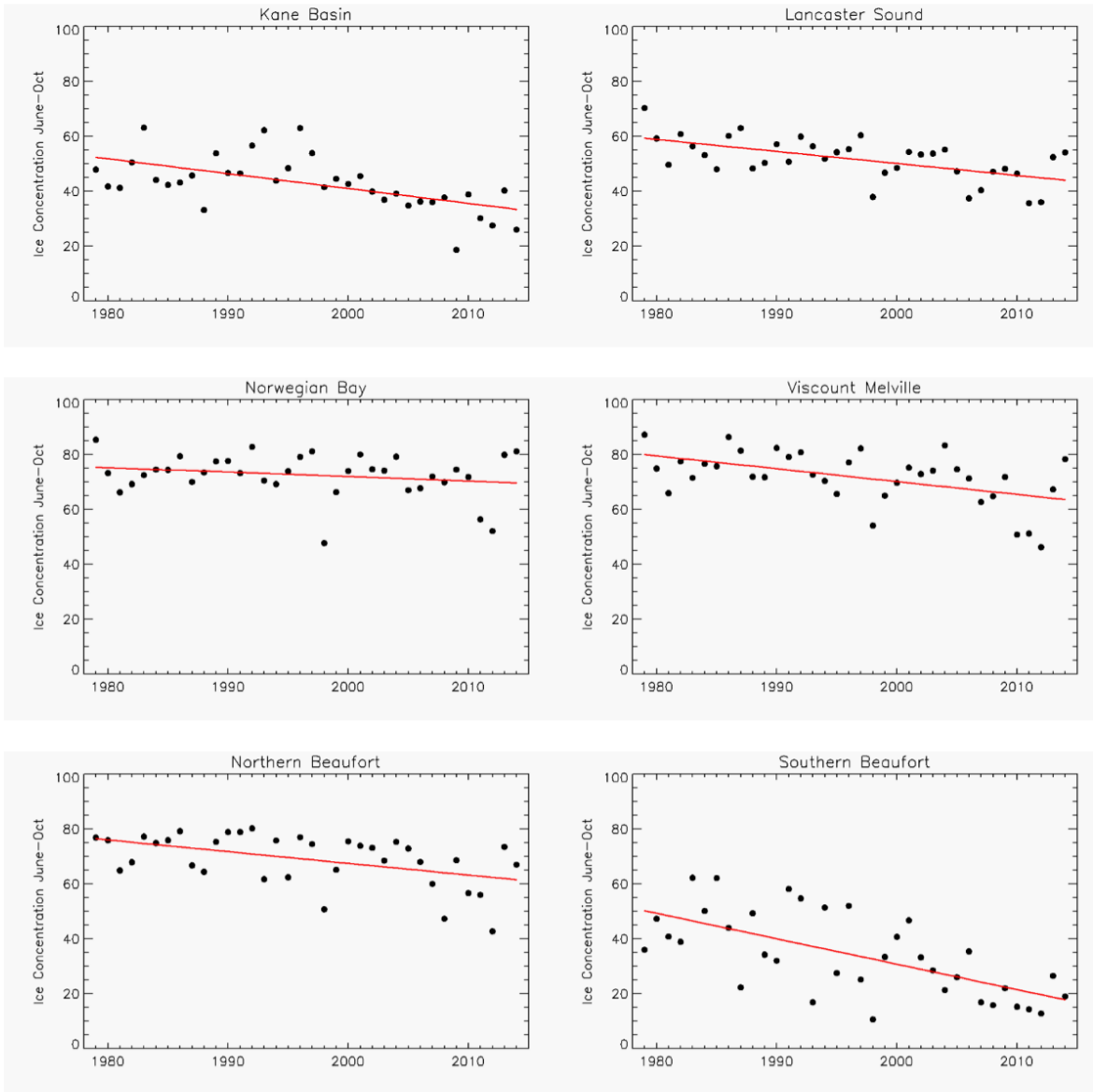
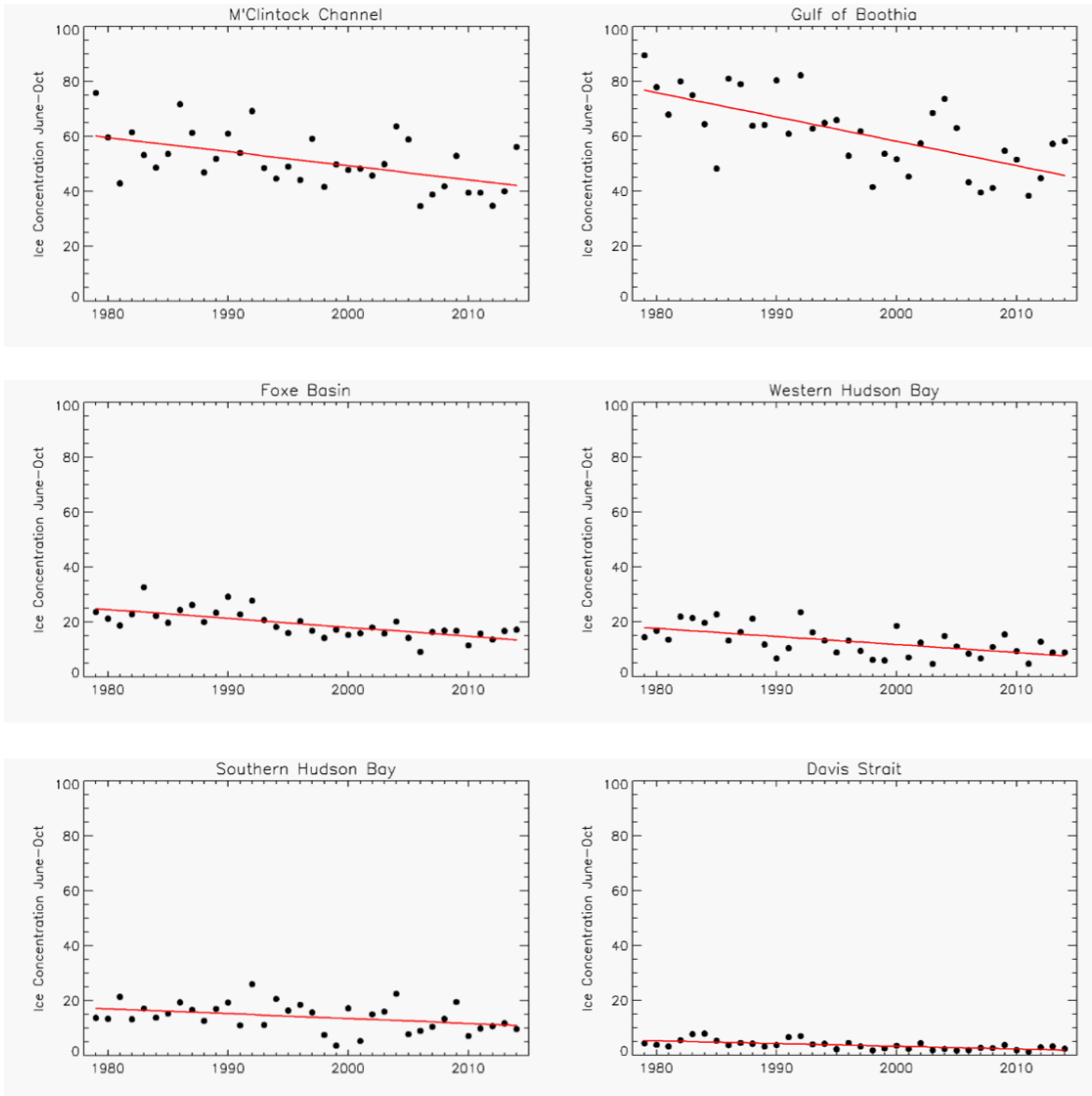
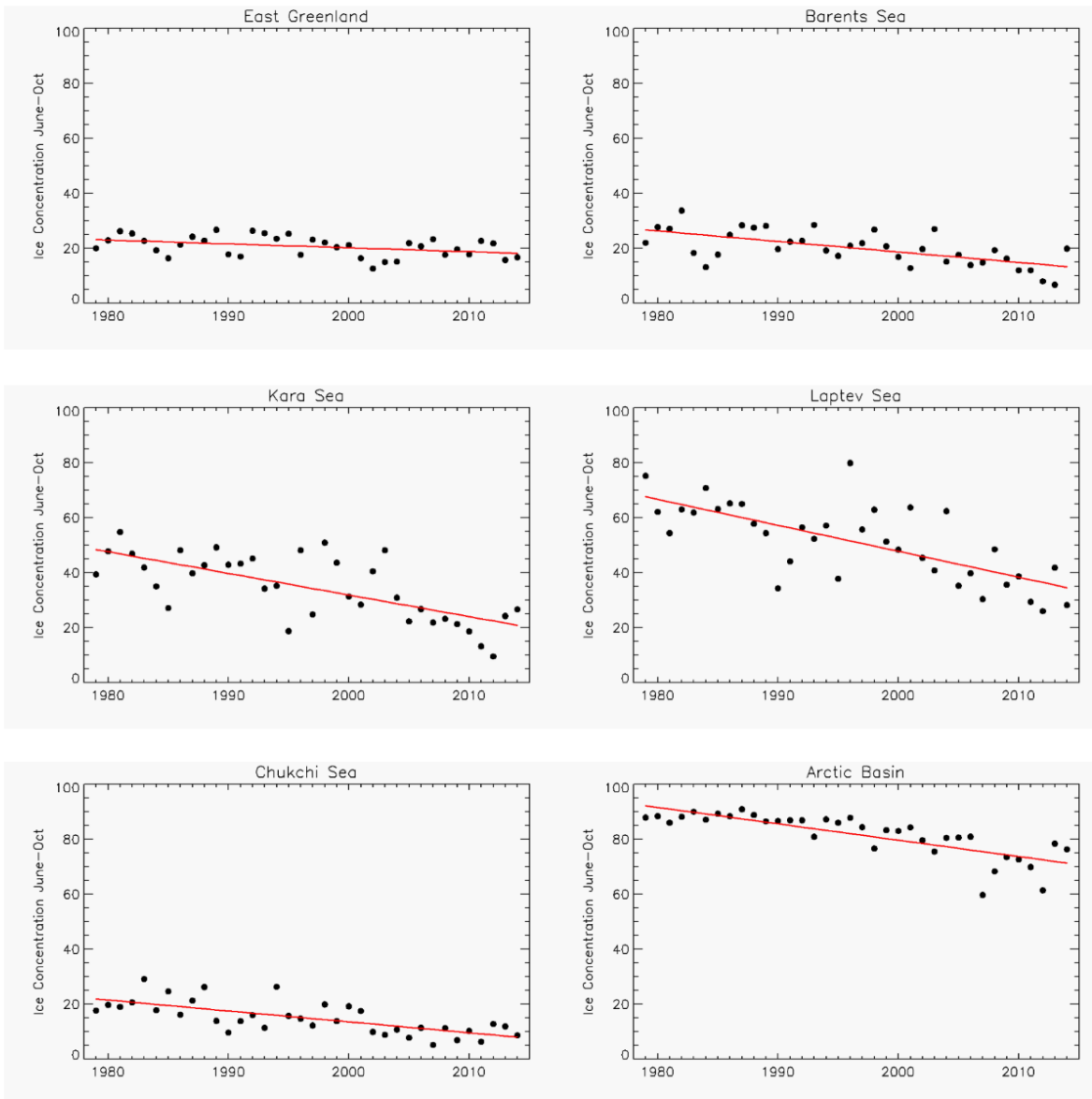
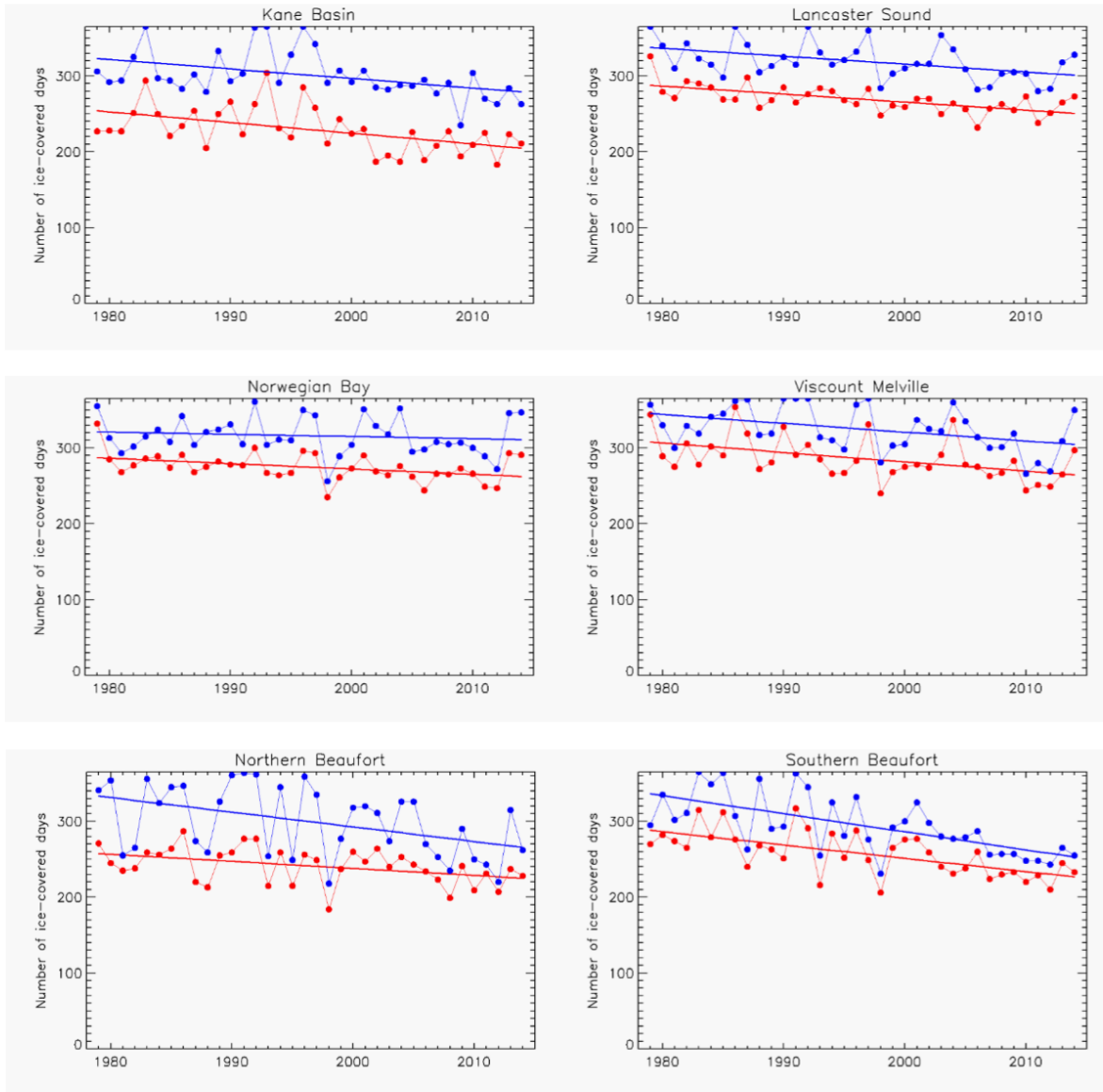

D. Summer Sea-Ice Concentration

50   Summer (June through October) sea-ice concentration vs. year, by region (all depths), with least-squares line in red. See Fig. 6 for Baffin Bay region. See Table 3 for trends.

55   Summer (June through October) sea-ice concentration, by region (continued).

Summer (June through October) sea-ice concentration, by region (continued).

E. Number of Ice-Covered Days

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Number of ice-covered days per year, 1979-2014, by region (add depths). An ice-covered day is one in which the sea-ice area exceeds a threshold (defined in main text). Blue: number of ice-covered days above 15% threshold. Red: number of ice-covered days above 50% threshold. Least-squares lines are also shown. See Fig. 8 for Baffin Bay region. See Table 3 for trends.

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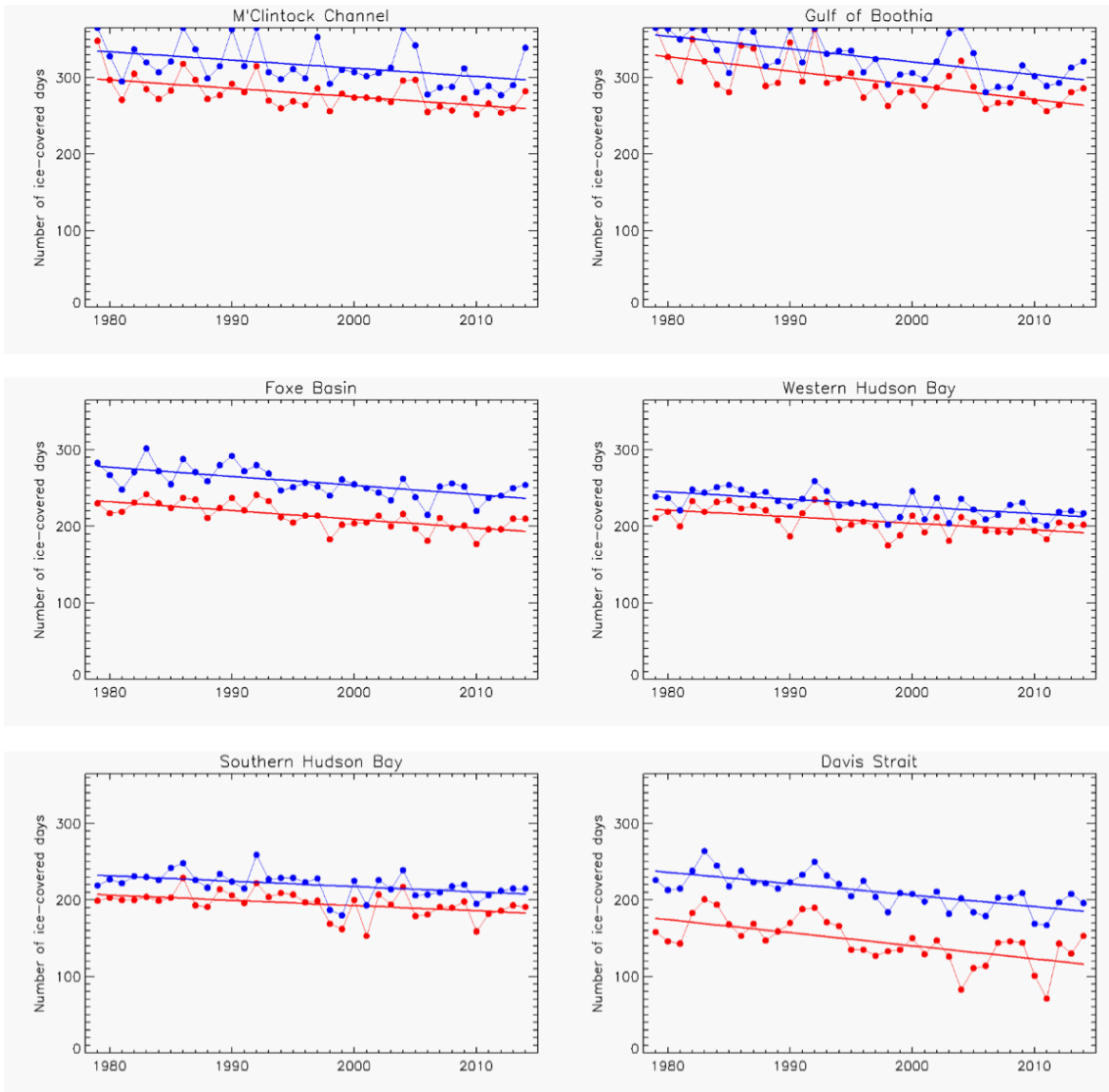
Number of ice-covered days, by region (continued).

70   Number of ice-covered days, by region (continued).