Improving summer seasonal forecasting matters for Arctic boreal fires and sea ice

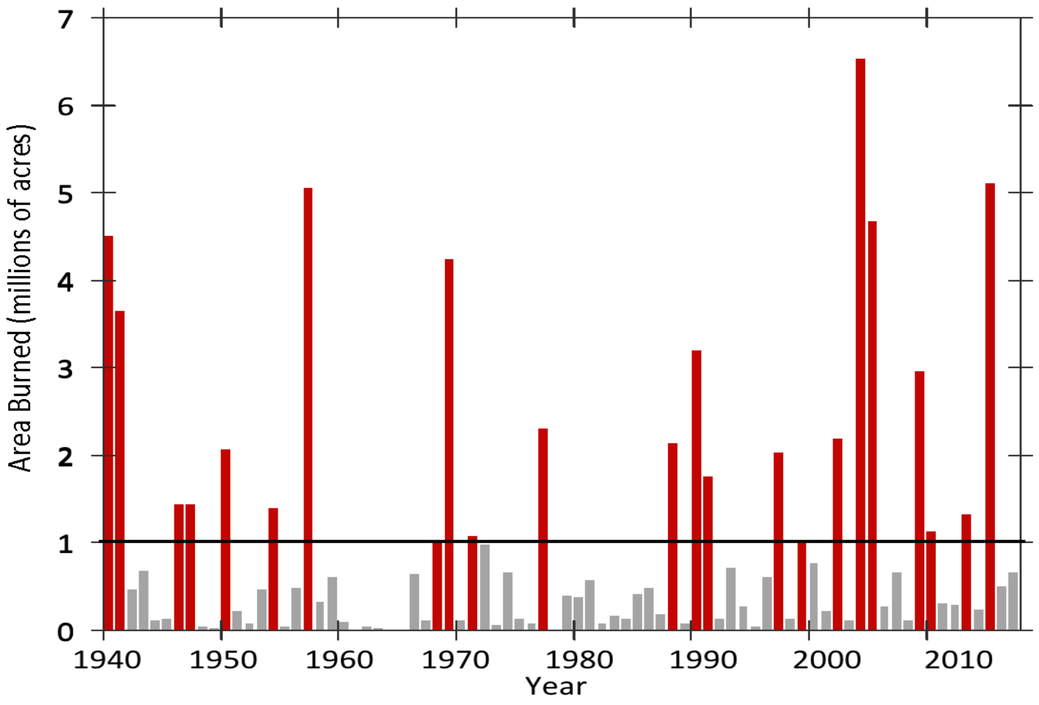

Figure 1. Annual acres burned of boreal forest in Alaska. Adapted from Partain et al. 2016

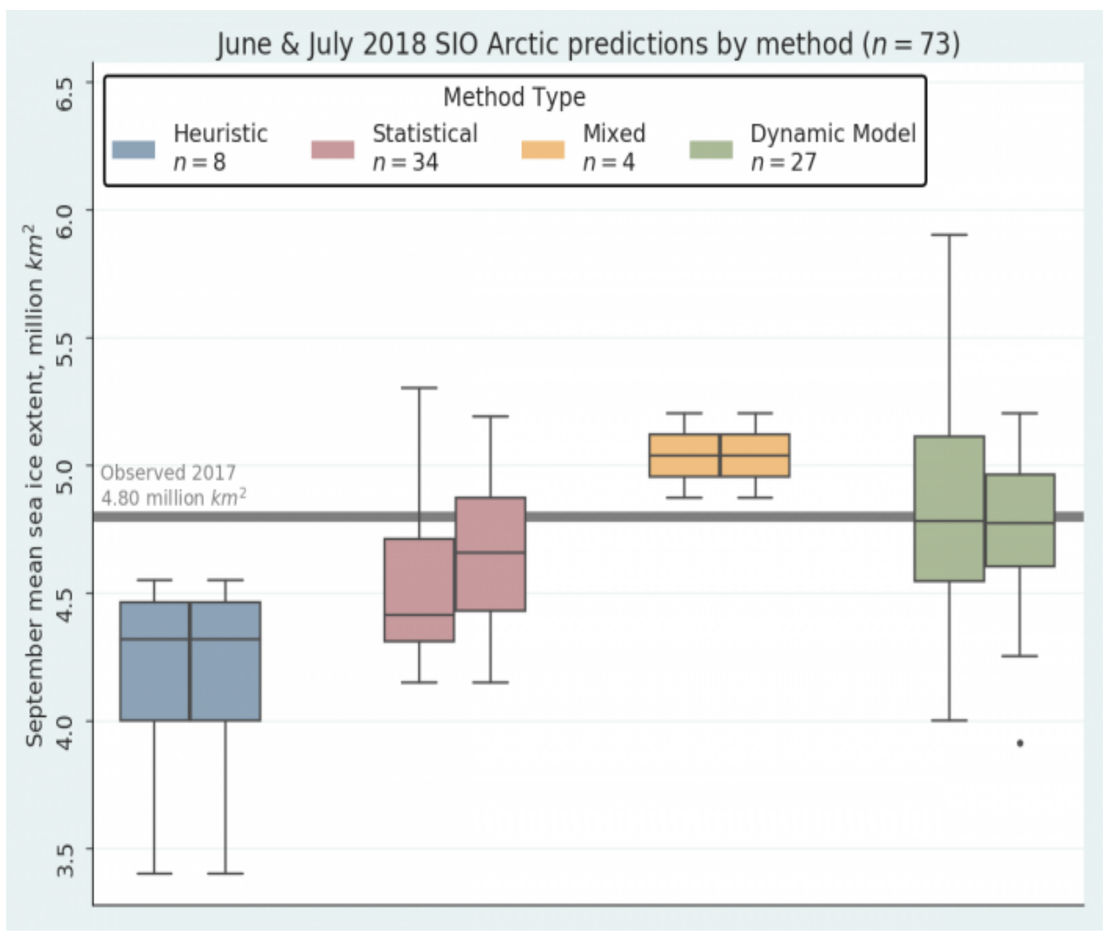

Figure 2. September forecast of average Arctic sea ice extent (June & July 2018). Adapted from Sea Ice Prediction Network – Outlook Report 2018

- Seasonal to sub-seasonal predictions of summer weather conditions are crucial for key processes that impact the atmosphere and sea ice.
- Atmospheric dynamics in summer associated with lightning, drought, heat-stress, and storms needs to be better understood to improve seasonal forecasts of wildfire (e.g., CFFWIS) and sea ice.
- Do variations in boreal forest fire and sea ice impact each other through the storms or heat waves?

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