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abstract = {Environmental conditions across the Arctic, a vast area above 60N, look today remarkably different than one or two decades ago. Modern satellite era measurements of Arctic annual surface air temperature (1979–2025) show that the region has, on average, warmed roughly three times faster than the rest of the planet. Human emissions of heat-trapping gases are driving the change globally with additional processes in the Arctic amplifying the heating (section 5c). The impacts touch every corner of the terrestrial and marine landscape, including serious compounding hazards for people in the Arctic. This chapter delves into these long-term trends and details 2025 observations across the Arctic system, including a section on 2023/24 observations on glaciers and ice caps outside of Greenland (section 5h, which alternates yearly with a section on Arctic river discharge).},

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