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sea ice surrounding antarctica reached a new record high extent this year covering more of the southern oceans than it has since scientists began a long term satellite record to map sea ice extent in the late 1970s the upward trend in the antarctic however is only about a third of the magnitude of the rapid loss of sea ice in the arctic ocean here we combine satellite observations of its changing volume flow and gravitational attraction with modelling of its surface mass balance to show that it lost 2 720 1 390 billion tonnes of the icecube neutrino observatory or simply icecube is a neutrino observatory constructed at the amundsen scott south pole station in antarctica the project is a recognized cern experiment re10 its thousands of sensors are located under the antarctic ice distributed over a cubic kilometre improved coverage of observations across antarctica and across different scientific disciplines will help scientists understand recent extreme events and their trajectory these events include the lowest winter sea ice extent on record since 1979 in september 2023 some 1 75 million square kilometres below the 1981 2010 average maximum may 27 2023 editors notes antarctic alarm bells observations reveal deep ocean currents are slowing earlier than predicted by kathy gunn matthew england and steve rintoul the the antarctic meteorological research center amrc and automatic weather station aws program are united states antarctic program usap sister projects focusing on observational antarctic meteorological research providing real time and archived meteorological data and observations and supporting a network of automatic weather stations in an the west antarctic ice sheet has been losing mass in recent decades contributing to global sea level rise previous observations and models have revealed that eastward undercurrents are observations of grounding zones are the missing key to understand ice melt in antarctica nature climate change comment published 21 september 2023 observations of grounding zones scientific reports long term observations from antarctica demonstrate that mismatched scales of fisheries management and predator

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