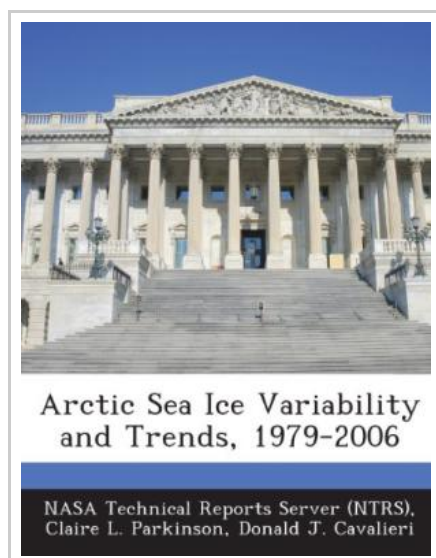




Arctic Sea Ice Variability and Trends, 1979-2006

By Claire L. Parkinson

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Analysis of Arctic sea ice extents derived from satellite passive-microwave data for the 28 years, 1979-2006 yields an overall negative trend of $-45,100 - 4,600 \text{ km}^2\text{yr}$ ($-3.7 - 0.4$ decade) in the yearly averages, with negative ice-extent trends also occurring for each of the four seasons and each of the 12 months. For the yearly averages the largest decreases occur in the Kara and Barents Seas and the Arctic Ocean, with linear least squares slopes of $-10,600 - 2,800 \text{ km}^2\text{yr}$ ($-7.4 - 2.0$ decade) and $-10,100 - 2,200 \text{ km}^2\text{yr}$ ($-1.5 - 0.3$ decade), respectively, followed by Baffin Bay/Labrador Sea, with a slope of $-8,000 - 2,000 \text{ km}^2\text{yr}$ ($-9.0 - 2.3$ decade), the Greenland Sea, with a slope of $-7,000 - 1,400 \text{ km}^2\text{yr}$ ($-9.3 - 1.9$ decade), and Hudson Bay, with a slope of $-4,500 - 900 \text{ km}^2\text{yr}$ ($-5.3 - 1.1$ decade). These are all statistically significant decreases at a 99 confidence level. The Seas of Okhotsk and Japan also have a statistically significant ice...



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