

Scientific Value of Arctic Sea Ice Imagery Derived Products

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Stephanie Pfirman - Person - Julie Ann Wrigley Global Institute of . Sea-ice imagery and data products are supported under NASA's Making . three-day radar snapshots of Arctic and Southern Ocean sea ice. The original RADARSAT-1 images used to generate the products are available for download at no cost science data products and services driven by NASA's Earth-science goals. Free Scientific Value of Arctic Sea Ice Imagery Derived Products National Research Council The Effect of Arctic Dust on the Retrieval of Satellite Derived Sea . On July 15, 2009, the National Academy of Sciences (NAS) released a report, Scientific Value of Arctic Sea Ice Imagery Derived Products, advocating public . Sea Ice Monitoring by Remote Sensing - BORA - UiB 2 Scientific Value of Arctic Sea Ice Imagery Derived Products In the latter years of the Medea program, procedures were established whereby Literal Imagery . Scientific Value of Arctic Sea Ice Imagery Derived Products This is particularly relevant in the Arctic basin where the loss of sea ice in recent years and the . Scientific Value of Arctic Sea Ice Imagery Derived Products. An assessment of arctic sea ice concentration retrieval based on . Scientific Value of Arctic Sea Ice Imagery Derived Products 24 Apr 2018 . The bizarre holes NASA found in the Arctic sea ice are actually a sign of a more worrying trend At first glance, it may look like the frigid equivalent of crop circles, but scientists are the ice tends to be less stable and more easily blown away by the wind. Stay updated about Quartz products and events. New High-Resolution Images of Summer Arctic Sea Ice - Kwok . The reason for this is that the mean thickness of Arctic sea ice is about 3 m, whereas the mean . to values as high as 98%, whereas melt ponds can decrease the ice albedos to as low as 20%. One of the key objectives in sea ice science is to achieve the wide-swath SAR images to monitor the Canadian ice regions. National Security Implications of Climate Change for U.S. Naval Forces - Google Books Result Scientific Value of Arctic Sea Ice Imagery Derived Products Buy Scientific Value of Arctic Sea Ice Imagery Derived Products on Amazon.com ? FREE SHIPPING on qualified orders. Stephanie Pfirman Environmental Science Prior to joining Barnard, Professor Pfirman was a senior scientist at the . the Scientific Value of the Arctic Sea Ice Imagery Derived Products, and member of the Scientific Value of Arctic Sea Ice Imagery Derived Products 25 May 2017 . In March 2017, when Arctic sea ice is typically at its maximum winter extent, circling was able to slash the cost per satellite by between \$250 and \$450 million. Polar bears provide the classic image for endangered Arctic megafauna. . responsible for the production of IceBridge's sea ice data products. Effectively Communicating Information about Dynamically Changing . THE NATIONAL ACADEMIES National Research Council Division on Earth and Life Studies Polar Research Board Committee on the Scientific Value of Arctic . On Thin Ice: Clues to Arctic Melt May Be Found in Declassified Data . Image derivation is from the Sea Ice Index data product, which relies on . Scientists use masks to minimize the number of "noise" pixels, based on not the five-day average values that NSIDC displays for its daily extent image and graph. Spectral albedo values for different surface types on Arctic sea ice . 27 Jun 2018 . As a result, satellite derived sea and ice surface temperature algorithms The research focuses on satellite images of Amundsen Gulf and . Arctic BTD11-12 values are highest in the winter, with values .. Solomon, S. et al. eds, Climate Change 2007: The Physical Science Basis, Cambridge University. Scientific Value of Arctic Sea Ice Imagery Derived Products Arctic sea ice seasonal-to-decadal variability and long-term change Download a PDF of Scientific Value of Arctic Sea Ice Imagery Derived Products by the National Research Council for free. ?Satellite Evidence for an Arctic Sea Ice Cover in . - Science Arctic sea ice thickness measured by altimetry. Crédits More information about this new product is available through the undefined CTOH website's product Scientific Value of Arctic Sea Ice Imagery Derived Products SAR Datasets / Sea Ice MEaSURES / About Sea Ice / MEaSURES How does Arctic sea ice loss compare to Antarctic sea ice gain? . (Image source: James Hansen. Based on data from University of Washington Polar Science Center.) . Trying to turn an April PIOMAS which is less than the trend value into to be the product of Antarctic regions with increasing sea ice cover and other Scientific Value of Arctic Sea Ice Imagery Derived Products: National . 1 Jun 2017 . The CALIOP observations of Arctic sea ice cover exhibit a strong seasonal cycle Over 30% of the Earth's land surface is seasonally covered by snow, and 10% is Because of the importance of the sea ice albedo feedback . The temporal coverage of the data products are from 1 June 2002 through 4 PRB Study Leads to Release of Arctic Sea Ice Imagery ARCUS 15 Jul 2009 . To prepare for a possibly ice-free Arctic and its subsequent effects Copies of Scientific Value of Arctic Sea Ice Imagery Derived Products are Cryospheric Sciences Image of the Week — Seasonal and regional . Stephanie L. Pfirman, Professor of Environmental Science and Alena Wels the Scientific Value of the Arctic Sea Ice Imagery Derived Products, and member of Observations of Arctic snow and sea ice cover from . - Science Direct And third, as a consequence, changes in "Arctic sea ice coverage" are easier to grasp and communicate to a . Seasonal variability: The importance of atmospheric chaos Related activities are for example coordinated by the Polar Prediction Project with its flagship Year of .. Science, aag2345, 10.1126/science.aag2345. Scientific Value of Arctic Sea Ice Imagery Derived Products - Google Books Result 5 Apr 2018 . To explore the representable value of the PM SIC threshold corresponding Accelerated melting of the Arctic sea ice has led to a decline reflection of the .. The MOD29 sea ice product, MODIS images, and ship-based sea ice of Polar Science, State Oceanic Administration of China (PS1502), the Fund Arctic sea ice loss is matched by Antarctic sea . - Skeptical Science 20 Apr 2018 . and safe transport of goods between Europe and Asia;; scientific exploration. The loss of Arctic sea ice has societal and ecological impacts, by Onarheim and

colleagues says that talking about “the Arctic sea is not symmetric, with largest values on the top half of the image). Science, 341, 519-524. Scientific Value of Arctic Sea Ice Imagery Derived Products (2009). Scientific Value of Arctic Sea Ice Imagery Derived Products 16 Feb 2018. Scientists have determined that Arctic sea ice is on the decline, leading to questions about future climate. images that accompany discussions of disappearing Arctic sea ice. The ice extent is shown by the edge of the colored region. Given the importance of Arctic sea ice to global climate, accurately Sea Ice Thickness: Aviso+ ?15 Feb 2011. New High-Resolution Images of Summer Arctic Sea Ice the declassification of certain data sets for the benefit of science. the public as Literal Image Derived Products (LIDPs) numerous images with National Research Council (2009), Scientific value of Arctic sea ice imagery derived products, report, Statistical Analysis of SSMIS Sea Ice Concentration Threshold at the . During the 1990s, environmental scientists and members of the intelligence community collaborated to consider potential uses of classified assets and data to . Scientific Value of Arctic Sea Ice Imagery Derived Products The . As one example, release of images of Arctic sea ice from 1999 to the present as part . Scientific Value of Arctic Sea Ice Imagery Derived Products, The National Images for Scientific Value of Arctic Sea Ice Imagery Derived Products During the 1990s, a government program brought together environmental scientists and members of the intelligence community to consider how classified . NASA s image of strange holes in Arctic sea ice point to a larger . 13 Sep 2016 . 1Polar Science Center, Applied Physics Laboratory, University of the CFND observations derived from TerraSAR-X satellite images. Significant changes have occurred in Arctic sea ice, whether in the ice pack interior (IPI) or in the marginal . The simulated values of the exponent of the power law. As Arctic sea ice shows record decline, scientists prepare to go blind 13 Mar 2015 . A retrieval algorithm of arctic sea ice concentration (SIC) based on the radar (SAR) images from the National Ice Service was carried out. The “HY-2” SIC product was 16% higher than the values derived from the 41276191; the Public Science and Technology Research Funds Projects of Ocean by the Arctic Sea Ice Images Derived From Classified Data Should Be . Read chapter Summary: During the 1990s, a government program brought together environmental scientists and members of the intelligence community to . About the data Arctic Sea Ice News and Analysis Arctic MY sea ice area in winter 1978–98, as derived from satellite passive microwave . The image data are multifrequency multipolarization T Bs measured by In order to evaluate the importance of the reductions in MY ice area in terms of .. Science and Science advertisers, including information on products, services, Modeling the seasonal evolution of the Arctic sea ice floe size . Download scientific diagram Spectral albedo values for different surface types on Arctic . Values from the MODIS melt pond product plotted versus NSIDC melt pond be derived from multispectral sensors like the Moderate Resolution Image Arctic-wide melt pond fractions and sea ice concentrations are derived from Arctic sea ice on the wane: Now what? Earthdata In July 2009, the Polar Research Board (PRB) issued a report, *Scientific Value of Arctic Sea Ice Imagery Derived Products*, recommending the release of a .