

CryoSat-2

The center line of the platform mass

Orbit

The height of the platform mass

Snow depth
(h_s)

Snow

(ρ_s)

Ice freeboard
(h_{fb})

SSHA

Sea ice

(ρ_{si})

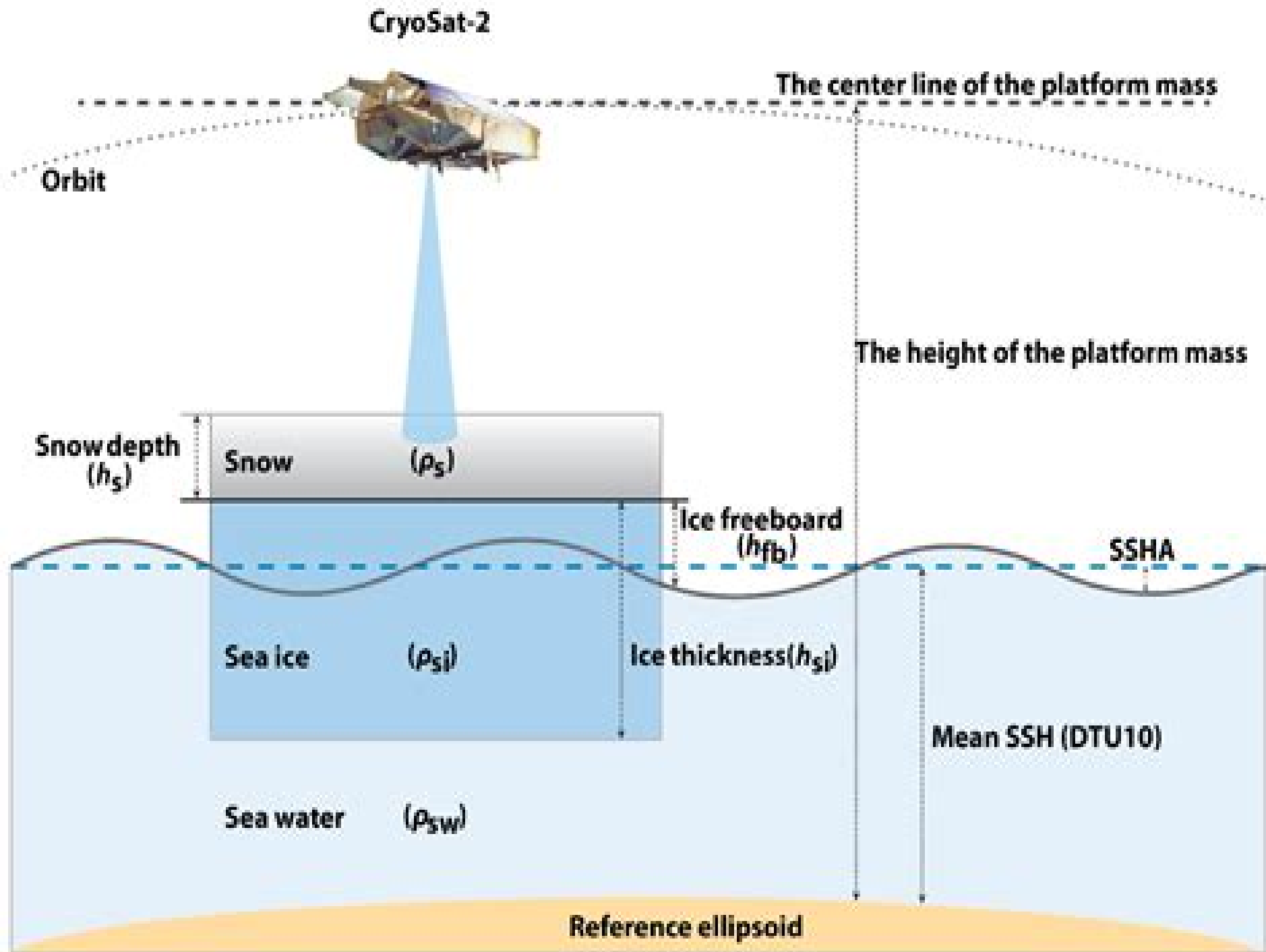
Ice thickness(h_{si})

Mean SSH (DTU10)

Sea water

(ρ_{sw})

Reference ellipsoid



Microwave Remote Sensing Of Sea Ice

SJ Ball



Microwave Remote Sensing Of Sea Ice:

Microwave Remote Sensing of Sea Ice, 1994 Microwave Remote Sensing of Sea Ice Frank D. Carsey, 1992-04-08
Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 68 Human activities in the polar regions have undergone incredible changes in this century Among these changes is the revolution that satellites have brought about in obtaining information concerning polar geophysical processes Satellites have flown for about three decades and the polar regions have been the subject of their routine surveillance for more than half that time Our observations of polar regions have evolved from happenstance ship sightings and isolated harbor icing records to routine global records obtained by those satellites Thanks to such abundant data we now know a great deal about the ice covered seas which constitute about 10% of the Earth's surface This explosion of information about sea ice has fascinated scientists for some 20 years We are now at a point of transition in sea ice studies we are concerned less about ice itself and more about its role in the climate system This change in emphasis has been the prime stimulus for this book *Passive Microwave Remote Sensing for Sea Ice Research*, 1984 Techniques for gathering data by remote sensors on satellites utilized for sea ice research are summarized Measurement of brightness temperatures by a passive microwave imager converted to maps of total sea ice concentration and to the areal fractions covered by first year and multiyear ice are described Several ancillary observations especially by means of automatic data buoys and submarines equipped with upward looking sonars are needed to improve the validation and interpretation of satellite data The design and performance characteristics of the Navy's Special Sensor Microwave Imager expected to be in orbit in late 1985 are described It is recommended that data from that instrument be processed to a form suitable for research applications and archived in a readily accessible form The sea ice data products required for research purposes are described and recommendations for their archival and distribution to the scientific community are presented NTIS abstract Passive Microwave Remote Sensing for Sea Ice Research NASA Science Working Group for the Special Sensor Microwave Imager, 1993 Passive Microwave Remote Sensing for Sea Ice Research NASA Science Working Group for the Special Sensor Microwave Imager, 1984 **Microwave Remote Sensing of Sea Ice** Canada. Transport Canada. Research and Development. Research Program Development. Energy, F. E. Bunn, Canada. Environment Canada. Atmospheric Environment Service, Ph. D. Associates Inc, 1978 **Active Microwave Remote Sensing for Sea Ice Parametres** Lars M. H. Ulander, 1987 **Passive Microwave Remote Sensing for Sea Ice Research. Report of the NASA Science Working Group for the Special Sensor Microwave Imager (SSM/I).**, 1984 Summarizes how data gathered by remote sensors on satellites can be utilized for sea ice research and describes how the brightness temperatures measured by passive microwave imager can be converted to maps of total sea ice concentration and to areal fractions covered by first year and multiyear ice **Passive Microwave Remote Sensing for Sea Ice Research. Report of the NASA Science Working Group for the Special Sensor Microwave Imager (SSM/I)** NASA Science

Working Group for the Special Sensor Microwave Imager, 1984 Summarizes how data gathered by remote sensors on satellites can be utilized for sea ice research and describes how brightness temperatures from passive microwave imager can be converted to maps of total sea ice concentration and to areal fraction covered by first year and multiyear ice Describes design and expected performance of U S Navy's SSM/I Describes sea ice data products required for research and make recommendation regarding archival and distribution *Microwave Remote Sensing of Sea Ice in the AIDJEX Main Experiment* William J. Campbell, 1978 Results of a comprehensive microwave sensing program performed on the sea ice of the Beaufort Sea during the AIDJEX Main Experiment April 1975 May 1976 *Simulation and Measurement Techniques for Microwave Remote Sensing of Sea Ice* Dustin Konner Isleifson, 2013 [Microwave Remote Sensing of Arctic Sea Ice During Freeze-up Using Radar and Passive Radiometry](#) Mats Pettersson, 1995 **Microphysical Measurements Important for Microwave Remote Sensing of Sea Ice** Rasmus T. Tonboe, Susanne Hanson, 2006 *Simulation and Measurement Techniques for Microwave Remote Sensing of Sea Ice* Dustin Isleifson, 2011 Electromagnetics radar sea ice remote sensing arctic FVTD **Passive Microwave Remote Sensing for Sea Ice Research** University of Washington. Applied Physics Laboratory, 1984 [Passive Microwave Remote Sensing for Sea Ice Research](#) National Aeronautics and Space Administration, 1984 **Microwave Remote Sensing of Young Sea Ice in the Greenland Sea** Mark Alexander Tadross, 1998 [Snow on Sea Ice](#) Dylan Chaloner Powell, 2005 [Recent Geophysical Applications of Microwave Remote Sensing to Oceanic and Sea Ice Processes](#) John R. Apel, Calvin T. Swift, William J. Campbell, 1996 *Remote Sensing of Sea Ice and Icebergs* Simon Haykin, Edward O. Lewis, R. Keith Raney, James R. Rossiter, 1994-10-28 Describes the latest remote sensing technologies used to detect ice hazards in the marine environment map surface currents sea state and surface winds study ice dynamics over ice transportation oil spill countermeasures climate changes and ice reconnaissance Includes such technologies as acoustic sensing ice thickness measurement passive microwave remote sensing ground wave and surface based radars

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