

Validation studies of AMSR-E ice concentrations in the Sea of Okhotsk

- First result of sea ice thickness and brightness temperature -

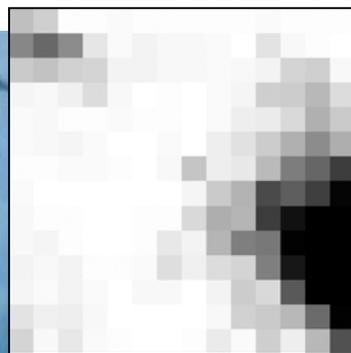
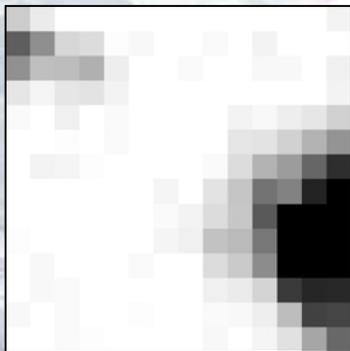
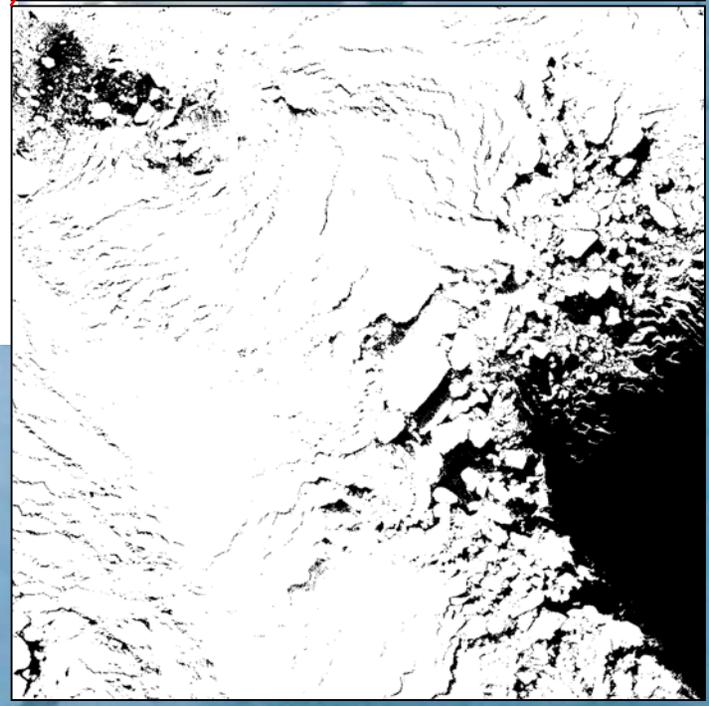
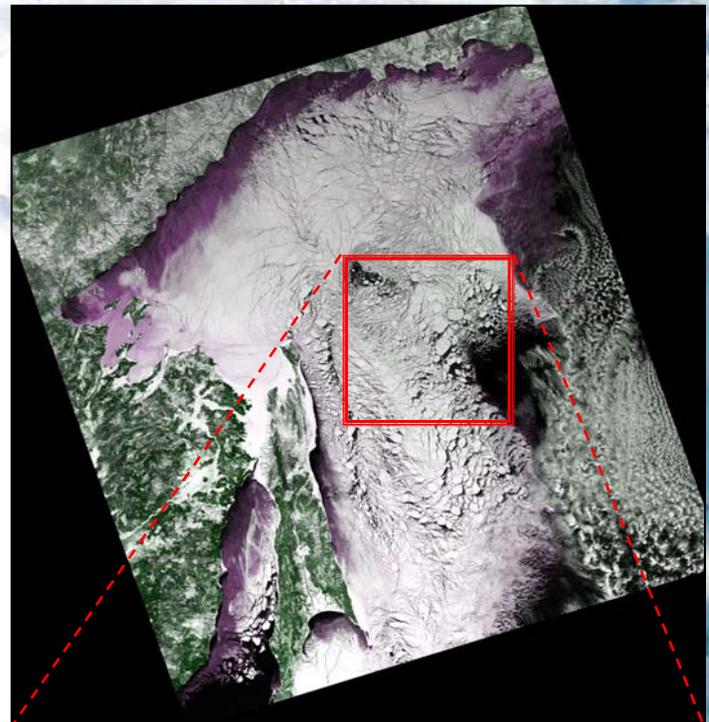
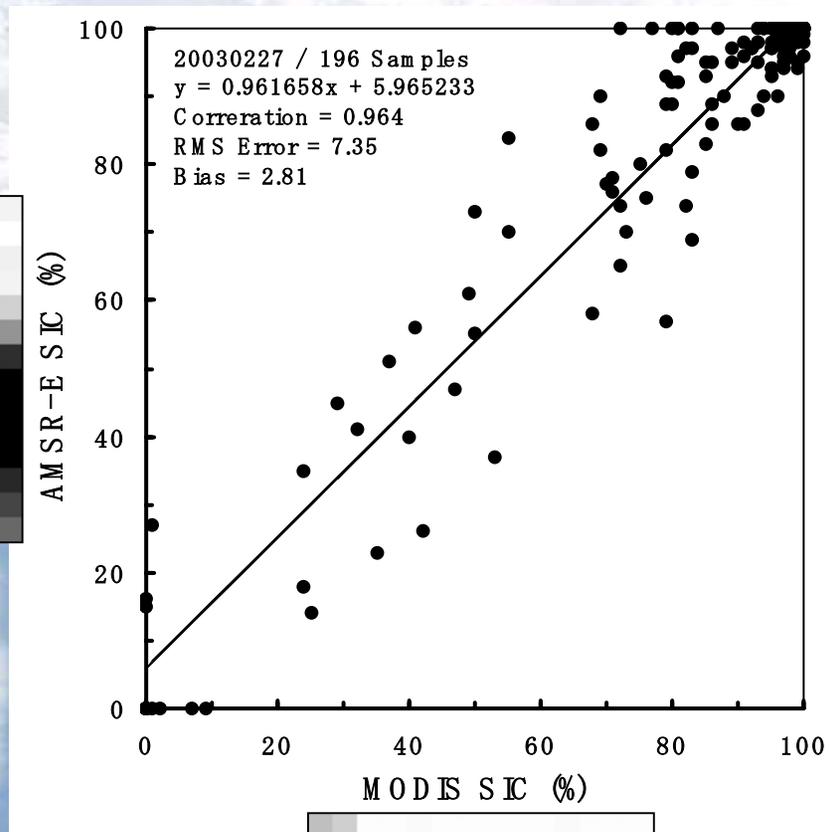
Masashige Nakayama / JAXA EORC

Fumihiko Nishio / Chiba University CEReS

Josefino C. Comiso / NASA GSFC

Al Gasiewski / NOAA ETL

Validation using MODIS



February 27, 2003
Sea of Okhotsk

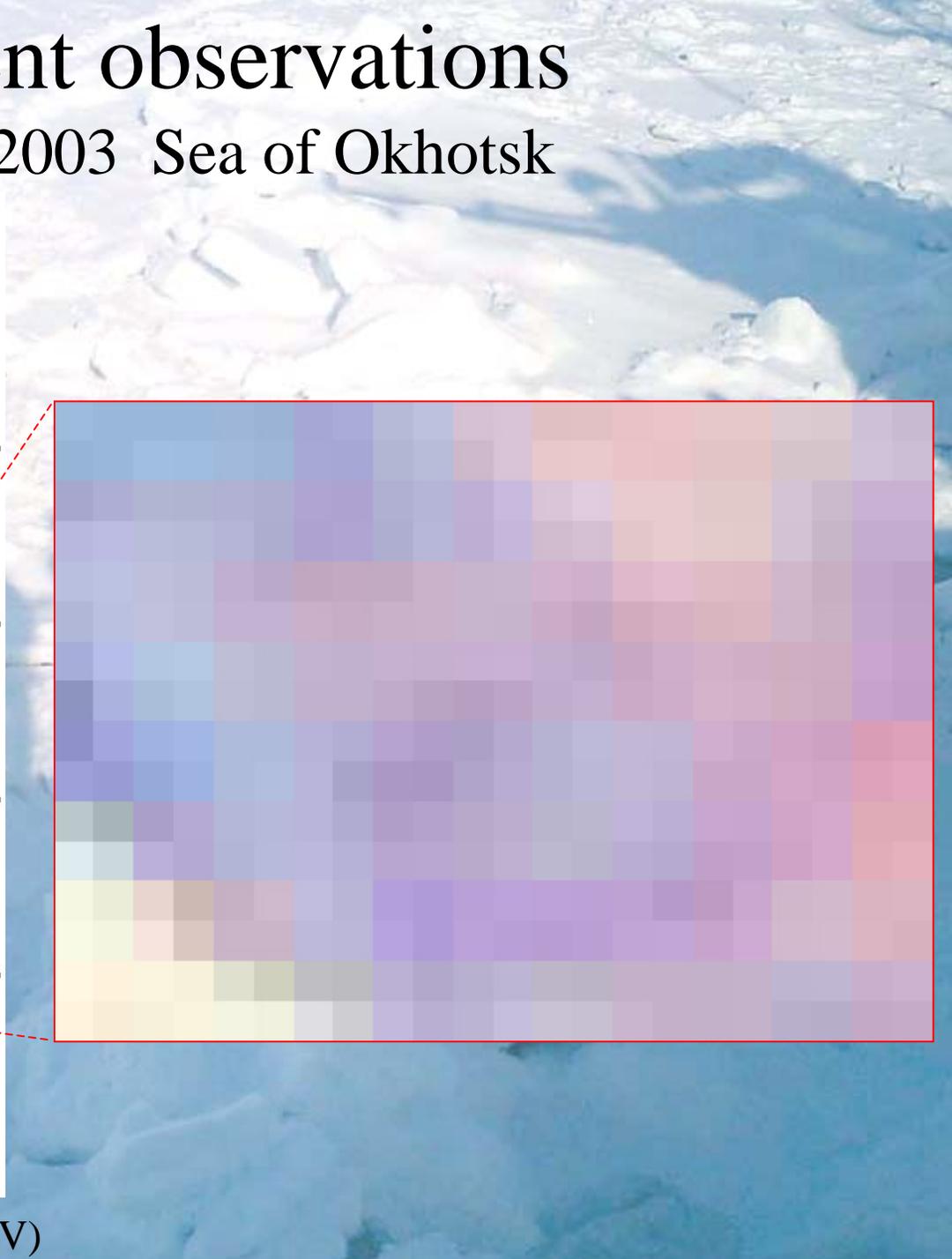
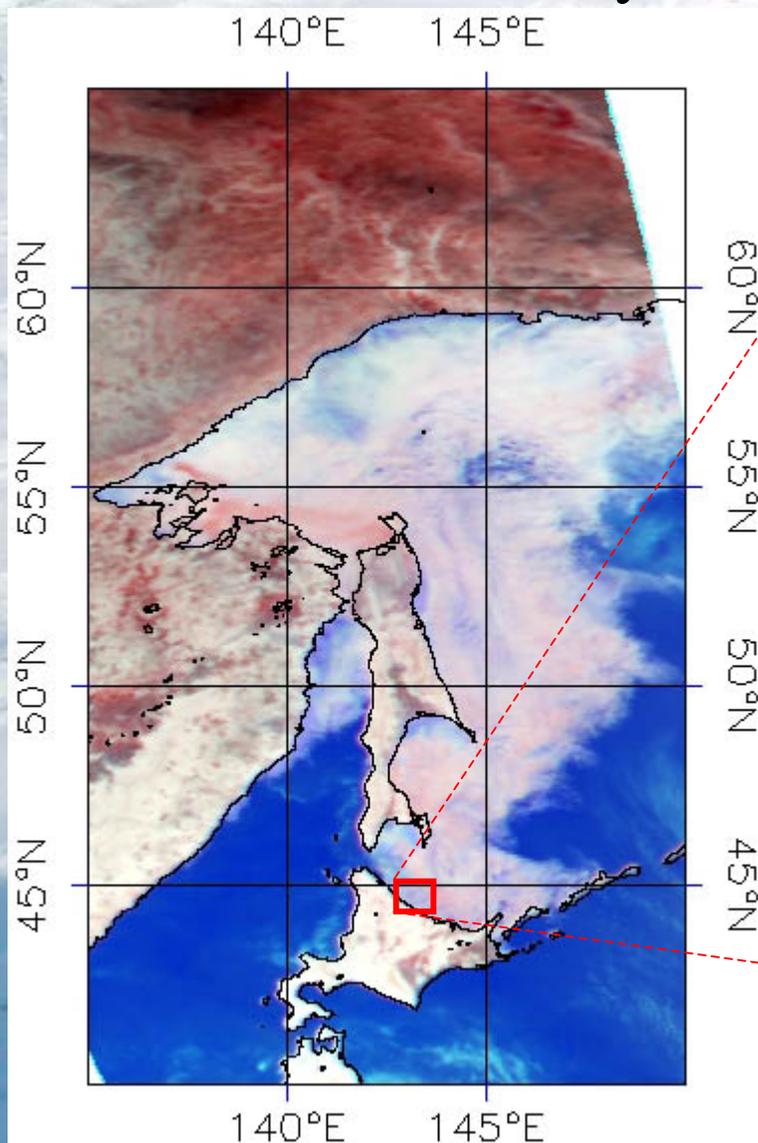
Aircraft and ship observation

- February 5 - 14, 2003.
 - Sea of Okhotsk
- August 16 - September 4, 2003.
 - Bellingshausen Sea
- September 11 - October 30, 2003.
 - Hobart to Casey station (AUS)
- February 5 - 14, 2004.
 - Sea of Okhotsk



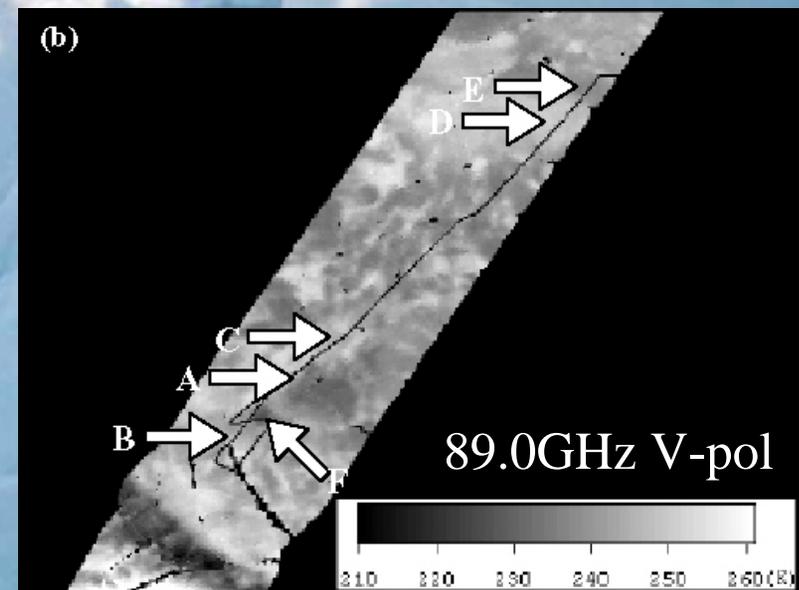
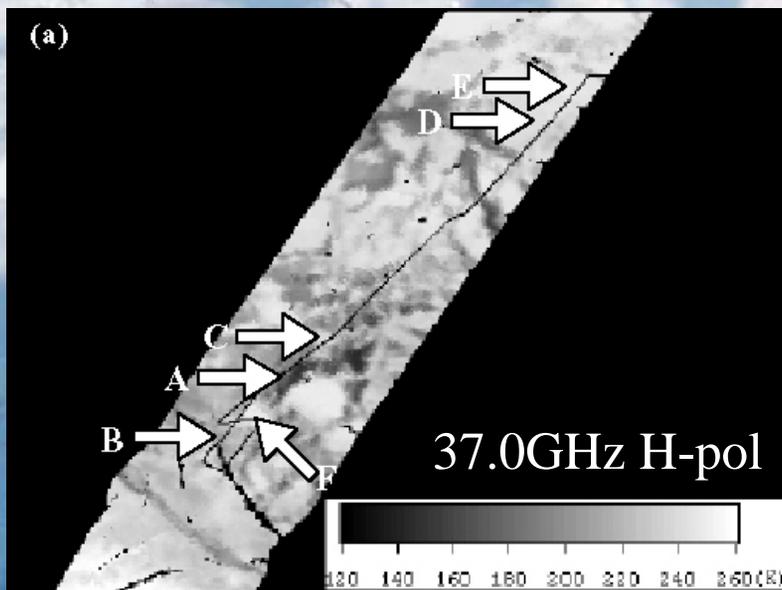
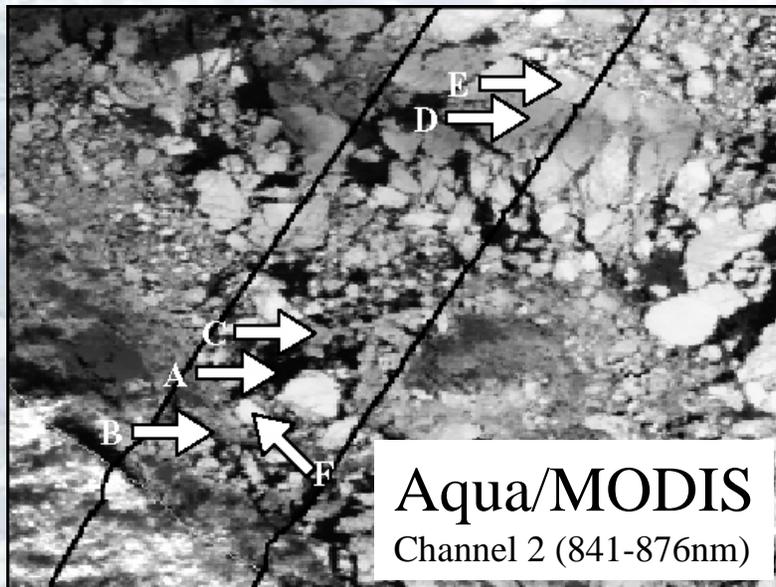
Concurrent observations

February 7, 2003 Sea of Okhotsk

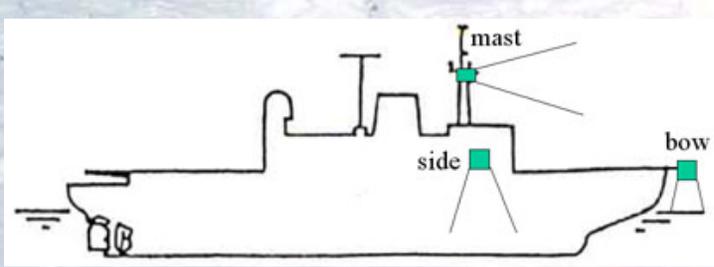


AMSR-E (RGB : 36.5H,89.0H, 89.0V)

PSR data over P/V SOYA

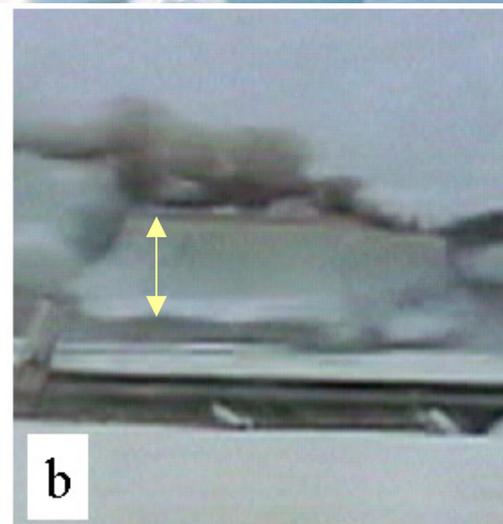
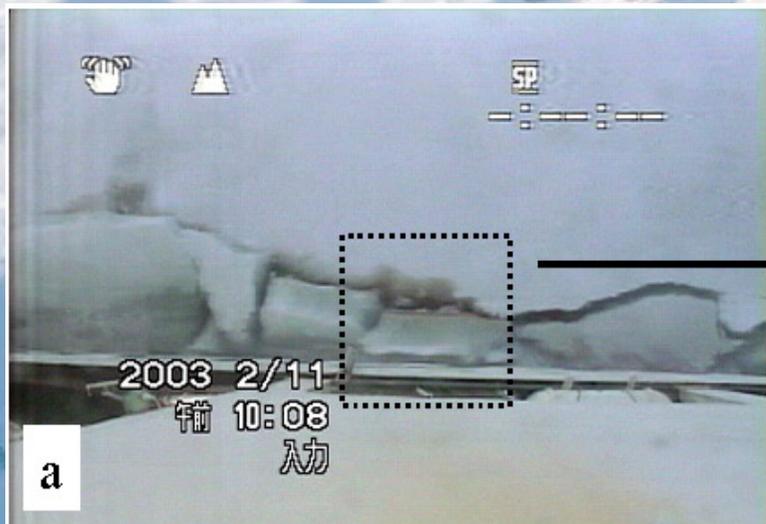


Sea ice thickness observation from ship



Position of camcorder
on P/V SOYA

Sample images taken by camcorders
a:mast, b:bow, c:broadside



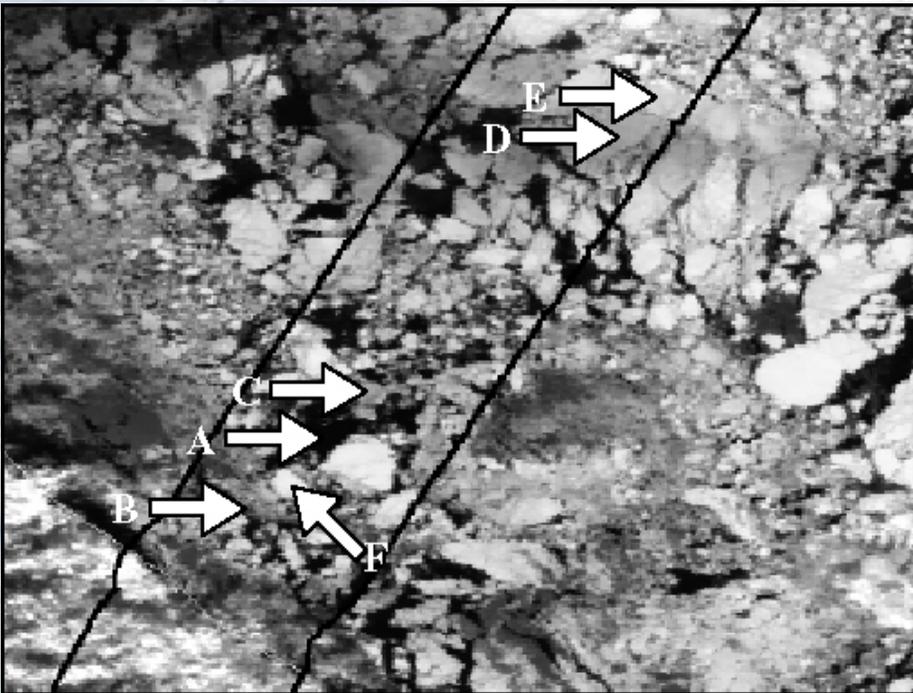
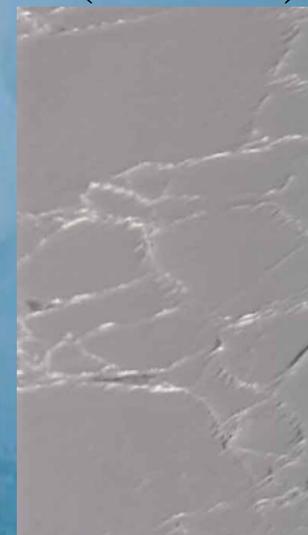
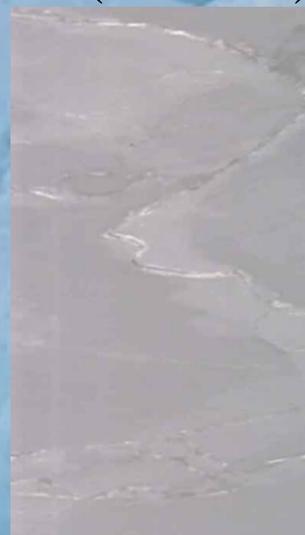
Example image of
measuring sea ice thickness

Average sea ice thickness of area A ~ F

A (>2cm) B (6.8cm) C (11.1cm)

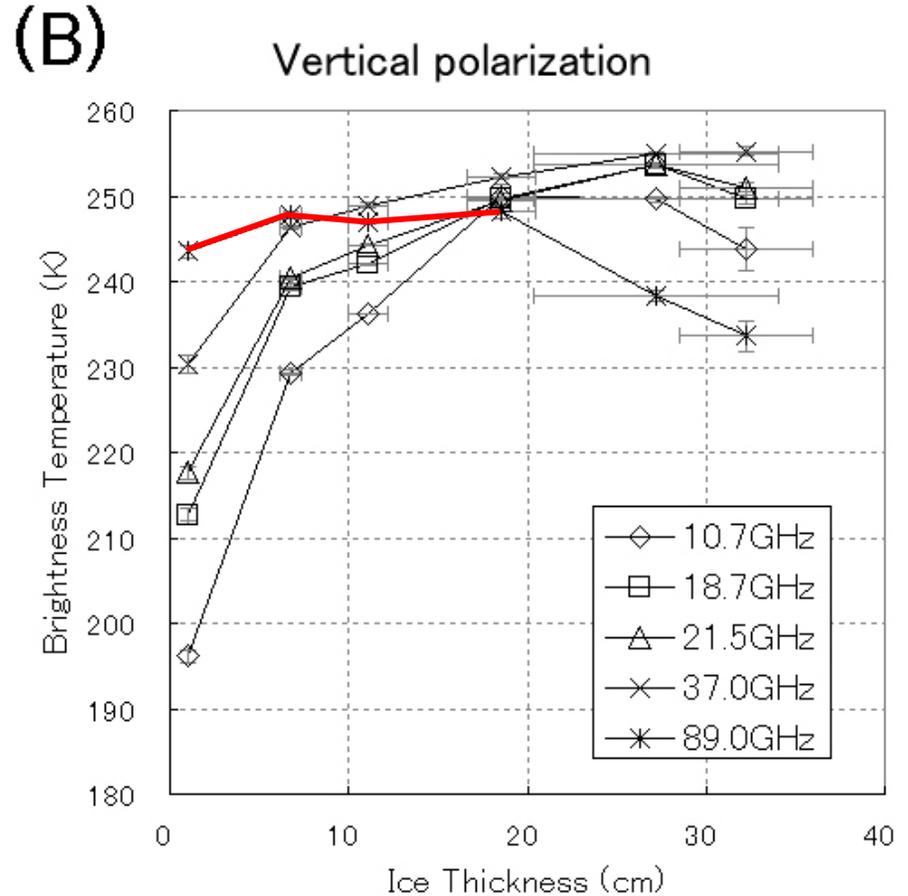
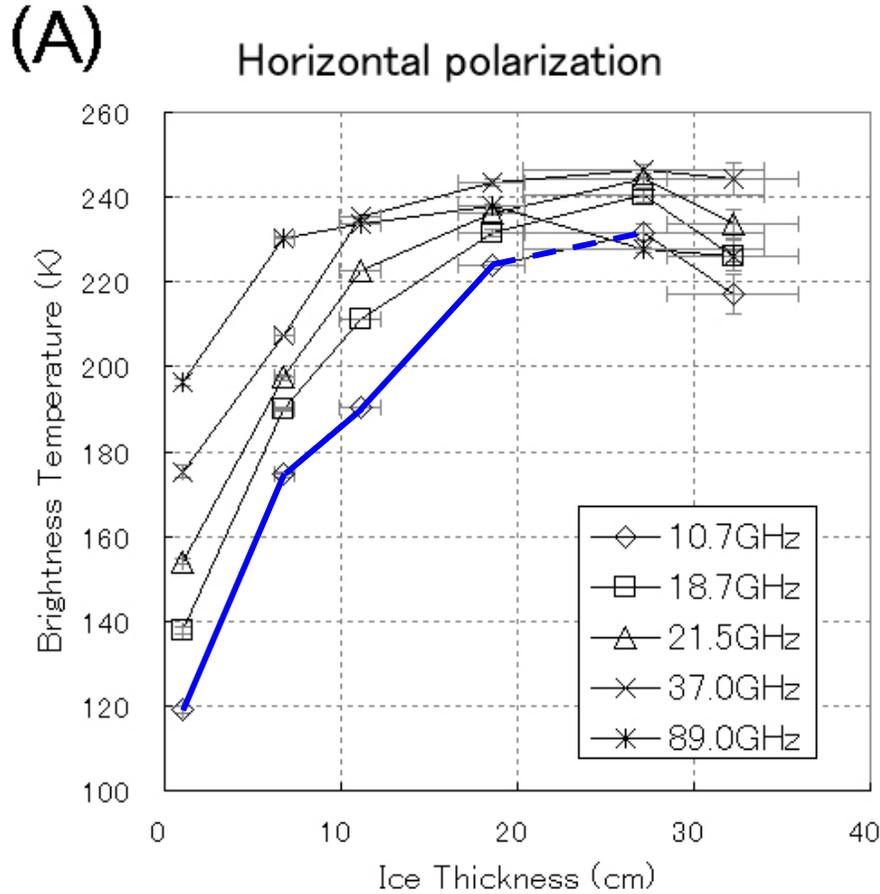


D (18.5cm) E (27.2cm) F (32.2cm)



Aqua/MODIS
Channel 2 (841-876nm)

Relationship of brightness temperature to sea ice thickness



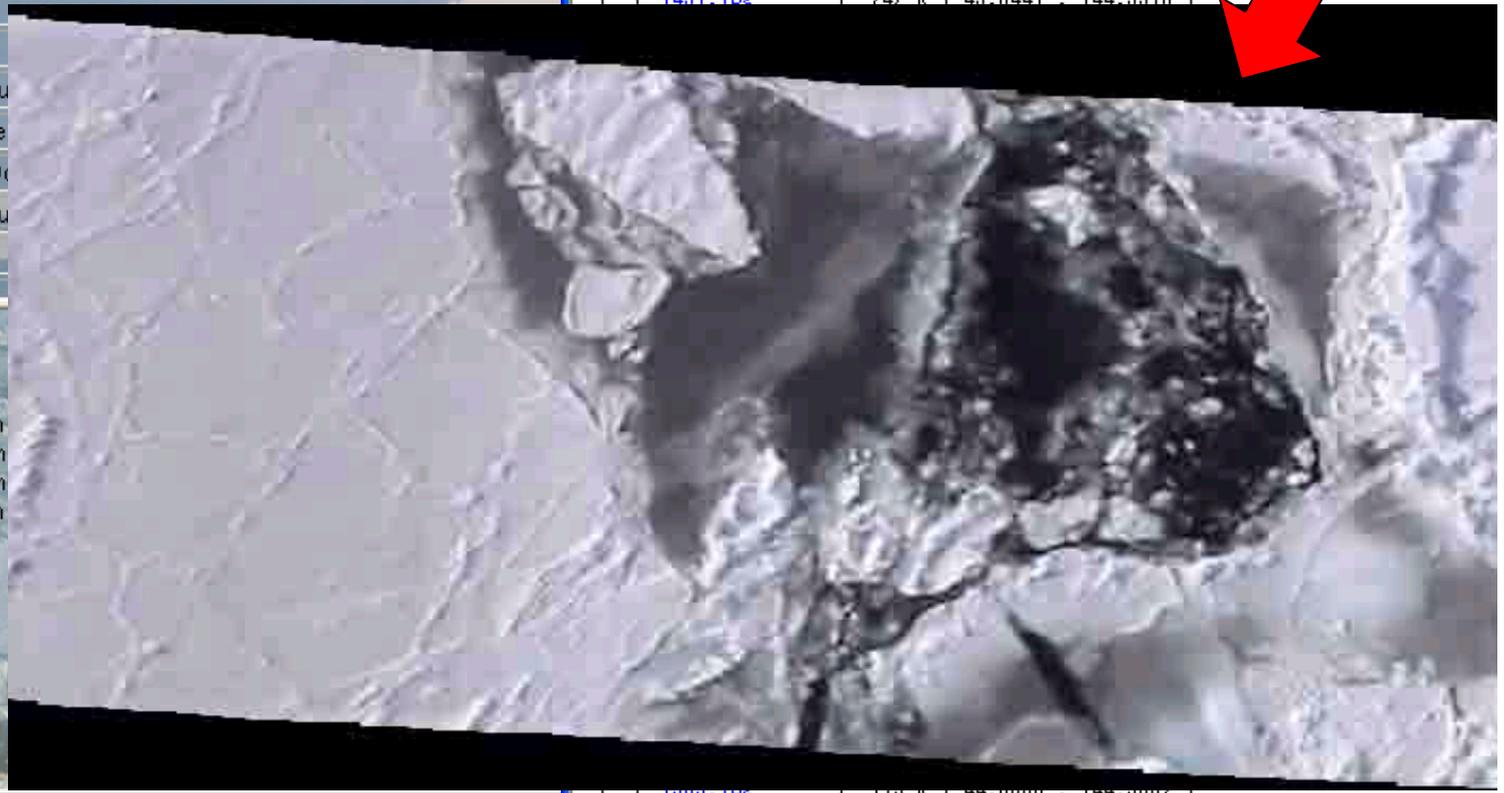


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year	month, day
2003	February 5 - Febru
2003	August 16 - Septe
2003	September 11 - Oc
2004	February 5 - Febru
2005	February

[Validation Data]

Feb. 2003 -- from
 Aug. 2003 -- from
 Sep. 2003 -- from
 Feb. 2004 -- from



Valid

E:\EORC_検証実験データ公開サイト用\sea_ice.htm - Micros...

ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 検索 お気に入り メディア

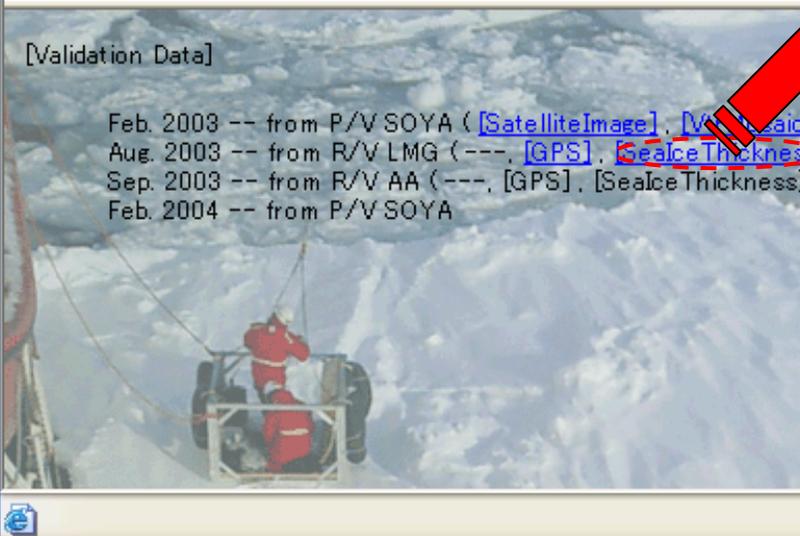
AMSR, AMSR-E Sea ice validation

[Validation Activities]

year	month, day	area	platform
2003	February 5 - February 14	Sea of Okhotsk	P/V SOYA,
2003	August 16 - September 4	Bellingshausen Sea	R/V LMG, t
2003	September 11 - October 30	Indian Ocean	R/V AA
2004	February 5 - February 14	Sea of Okhotsk	P/V SOYA,
2005	February	Sea of Okhotsk	P/V SOYA

[Validation Data]

Feb. 2003 -- from P/V SOYA ([SatelliteImage], [SeaIceThickness])
Aug. 2003 -- from R/V LMG (---, [GPS], [SeaIceThickness])
Sep. 2003 -- from R/V AA (---, [GPS], [SeaIceThickness])
Feb. 2004 -- from P/V SOYA



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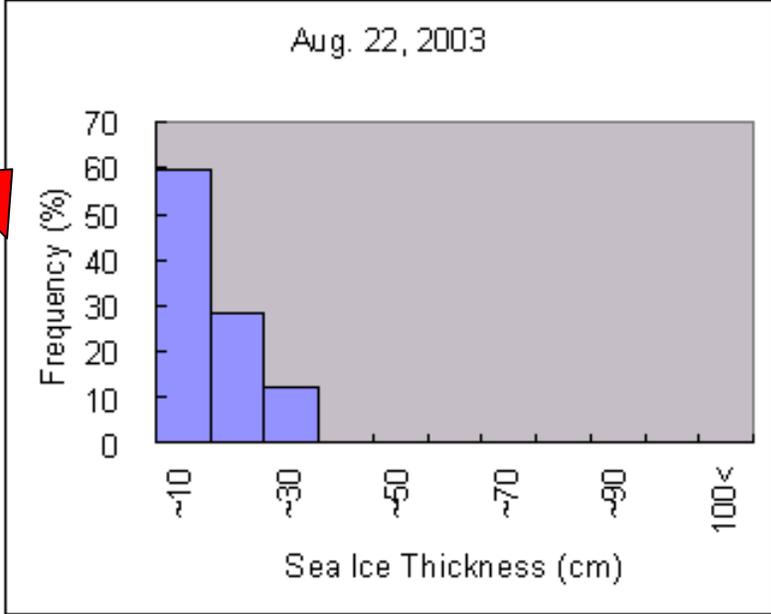
ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

戻る 検索 お気に入り メディア

Sea Ice Thickness Data

[Aug. 22, 2003 : CSV Text file \(9,729Bytes\) --- GoTo SampleImage](#)
[Aug. 23, 2003 : CSV Text file \(39,641Bytes\) --- GoTo SampleImage](#)
[Aug. 24, 2003 : CSV Text file \(18,964Bytes\) --- GoTo SampleImage](#)
[Aug. 25, 2003 : CSV Text file \(46,761Bytes\) --- GoTo SampleImage](#)
[Aug. 26, 2003 : CSV Text file \(25,548Bytes\) --- GoTo SampleImage](#)
[Aug. 27, 2003 : CSV Text file \(262,786Bytes\) --- GoTo SampleImage](#)
[Aug. 28, 2003 : CSV Text file \(98,591Bytes\)](#)
[Aug. 29, 2003 : CSV Text file \(61,802Bytes\)](#)
[Aug. 30, 2003 : CSV Text file \(44,572Bytes\)](#)

Aug. 22, 2003



Sea Ice Thickness (cm)	Frequency (%)
~10	60
~30	30
~50	15
~70	0
~90	0
100<	0

マイコンピュータ