

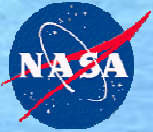
Latest Developments at the Physical Oceanography Distributed Active Archive Center (PO.DAAC)

David Moroni

Data Engineer for Ocean Wind and Scatterometry

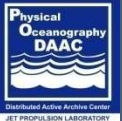
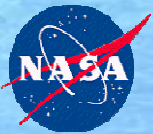
Jet Propulsion Laboratory

California Institute of Technology, Pasadena, CA



Outline

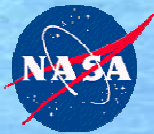
- Welcome to PO.DAAC
- Broadening User Service and Support
- Measuring Our Success
- Services and Tools for Users
- Product Delivery for PIs
- New Ocean Wind CDR Released
- On the Horizon
- Sneak Peak



Welcome to PO.DAAC!



- We provide data, tools, and user services for physical ocean parameters including: Circulation/Currents, Gravity, OVW, Salinity, Sea Ice, SST, and OT.
- One of 12 NASA-sponsored DAACs
- Designated archive for many of NASA's EOS missions: Aquarius (2010), GRACE, Jason-1, Nimbus-7, NSCAT, SeaSat, SeaWinds on QuikSCAT/ADEOS-II.
- Additional archive for partner missions and value-added products: AVHRR, GHRSSST, MODIS, SSM/I Pathfinder, TOPEX/Poseidon, WindSat (cal/val).



Jet Propulsion Laboratory
California Institute of Technology

[+ View the NASA Portal](#)

Search



[JPL HOME](#)

[EARTH](#)

[SOLAR SYSTEM](#)

[STARS & GALAXIES](#)

[SCIENCE & TECHNOLOGY](#)



PO.DAAC

Physical Oceanography DAAC

Managing Data to Enable Understanding and Stewardship of the Ocean

[ABOUT PO.DAAC](#)

[HOME](#)

[DATA CATALOG](#)

[TOOLS & SERVICES](#)

[RELATED SITES](#)

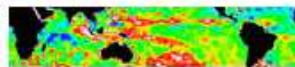
[ANNOUNCEMENTS](#)

[HELP/FAQ](#)

[Datacasting Feeds](#)

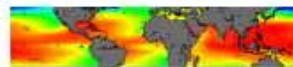


TOPOGRAPHY & GRAVITY



- [Jason-1](#)
- [TOPEX/Poseidon](#)
- [GRACE](#)
- [All Topography Products](#)

SEA SURFACE TEMPERATURE



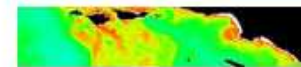
- [AVHRR Path finder](#)
- [GHRST/GDAC](#)
- [MODIS](#)
- [All Temperature Products](#)

OCEAN WINDS



- [CCMP](#)
- [SeaWinds on QuikSCAT](#)
- [SeaWinds on ADEOS-II](#)
- [NSCAT](#)
- [All Winds Products](#)
- [Non-Resident Wind Products](#)

SPECIAL TOPICS



- [SCCOOS](#)

CIRCULATION & CURRENTS



- [ECCO2](#)
- [OSCAR](#)

DATA PARTNERS



- [Aquarius](#) (Launch 2010)

PRODUCTS PREVIEW



- NEW! PI Provided Products**
- [NSCAT ARP](#)
 - [TOPEX TMR](#)

NEWS & ANNOUNCEMENTS



Reminder:
[International GHRST Data Users Symposium](#)
registration deadline is on 31 January 2009.



Where Oceans Meet Atmosphere:
Satellite data helps Oceanographers



A Brazilian Wind:
Measuring energy potential



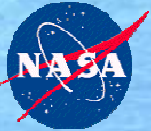
Datacasting:
RSS-based technology for distributing ES data



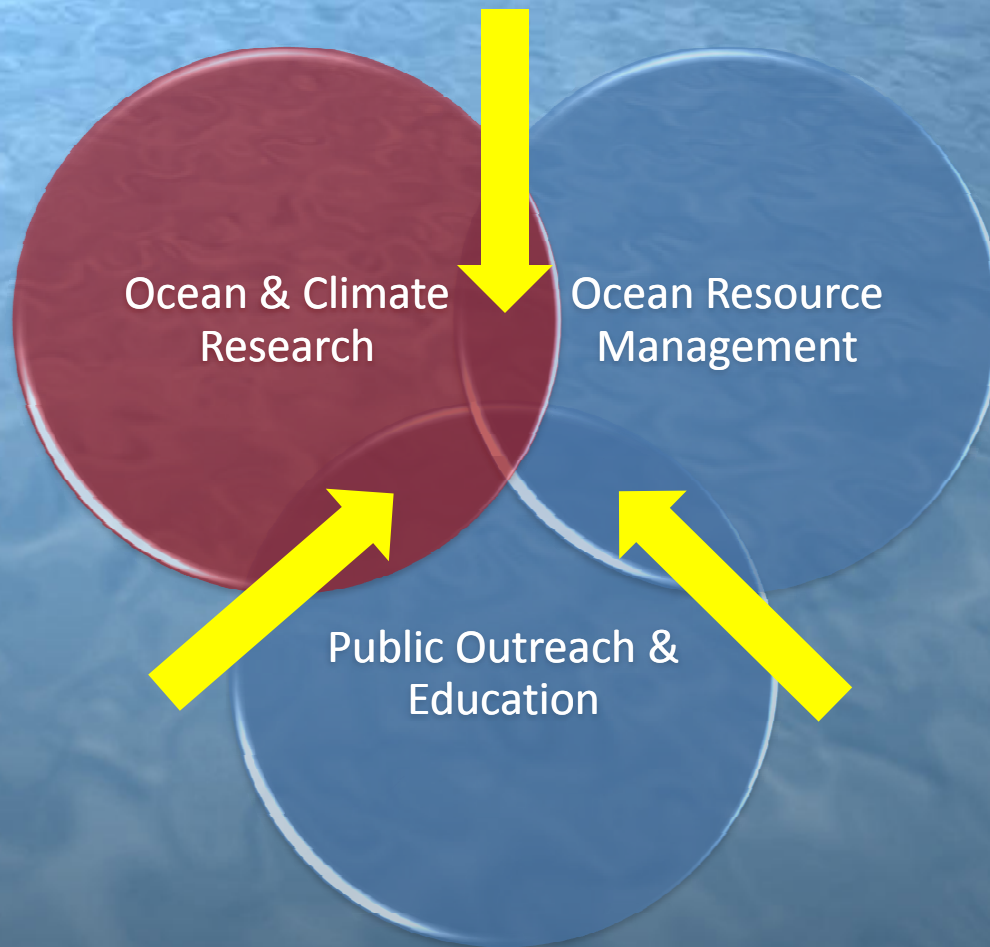
Educational Site:
[Ocean Motion & Surface Currents](#)

Web: <http://podaac.jpl.nasa.gov/>

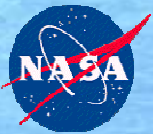
FTP: <ftp://podaac.jpl.nasa.gov/>



Broadening User Service and Support



- Ocean and Climate Research has been and will continue to be our biggest driver in providing high quality products and services to our users.
- Ocean Resource Management and Public Outreach/Education will also help to drive new tools/services and value-added products.
- Primary focus is placed on where user-driven services intersect.



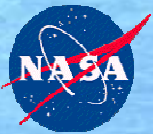
Measuring Our Success

- Metrics collection:

- Data ingest and access
- Data and services usage
- User satisfaction rates
- Portal access
- Search engine ranking



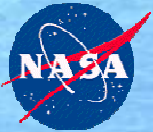
- Reminder: please register your name and email at podaac@podaac.jpl.nasa.gov in order to receive the annual EOSDIS user satisfaction survey.



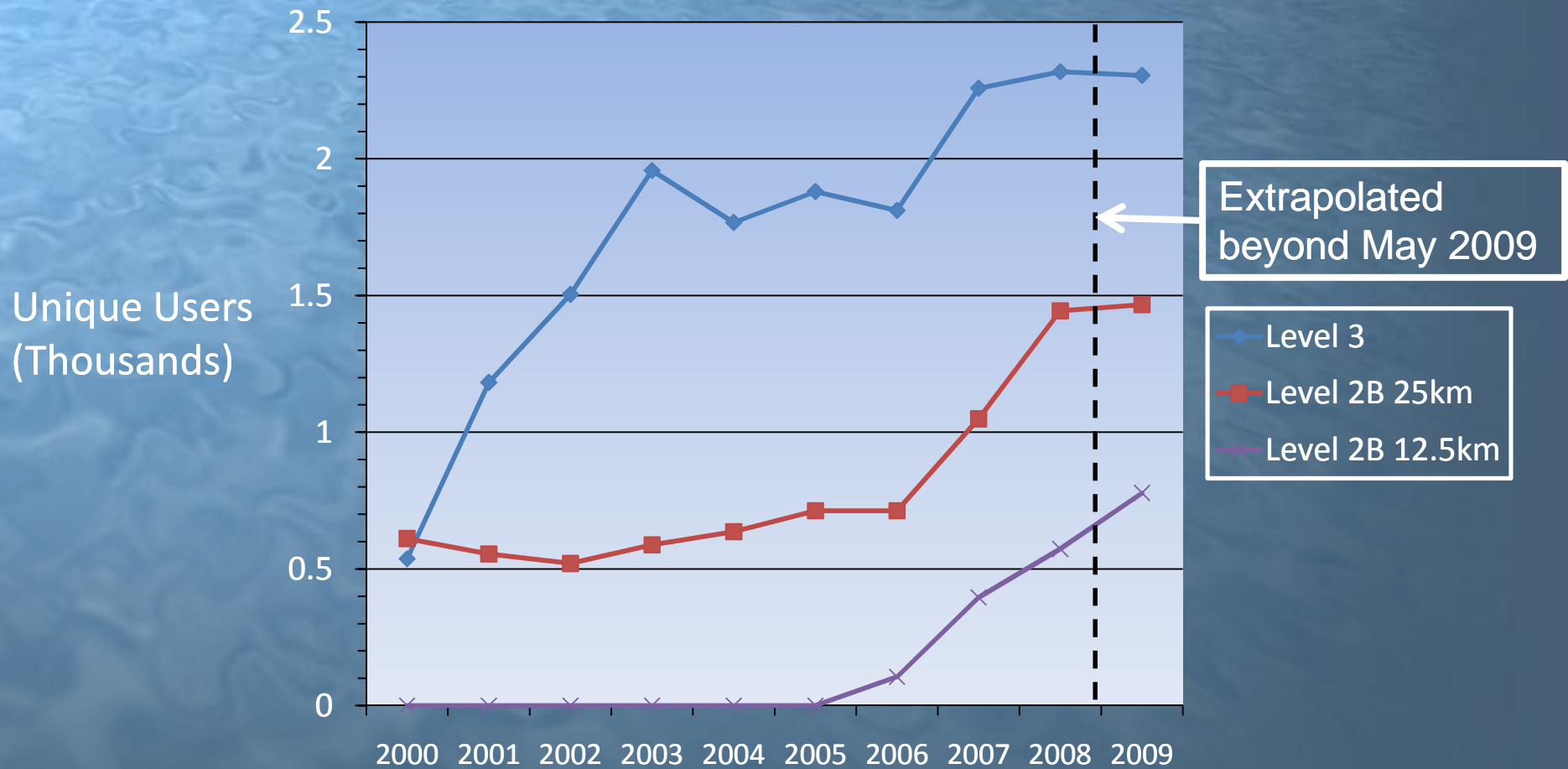
Most Popular Products Via FTP*

- QuikSCAT Level 3 is PO.DAAC's most popular product in terms of unique users:
 - 2008: 2313 unique users
 - 2009: 877 unique users
- QuikSCAT Level 2B 25km product ranked 2nd in 2008 and currently ranked 3rd for 2009.

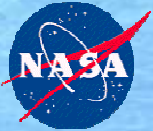
*Note: these numbers do not reflect usage via HEFT/ASPERA, OPeNDAP, or POET. Total usage numbers are likely to be much higher.



QuikSCAT Annual FTP* Usage

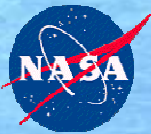


*Note: these numbers do not reflect usage via HEFT/ASPERA, OPeNDAP, or POET. Total usage numbers are likely to be much higher.



Services and Tools for Users

- <http://podaac.jpl.nasa.gov/TOOLS/index.html>
- Source data retrieval: FTP, HEFT/ASPERA, and OPeNDAP.
- Level-3 Subsetting via POET
- Hurricane/Typhoon Tracker: NRT QuikSCAT UHR Winds
- Access to NRT QuikSCAT Data and Images
- Datacasting (RSS-feeds): <http://datacasting.jpl.nasa.gov/>
 - GHRSSST L2P, Jason-1 SSH, QuikSCAT UHR Images
- Basic read software, metadata, and guide documentation.
- User Services Help Desk: podaac@podaac.jpl.nasa.gov

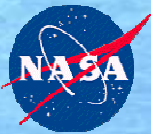


QuikSCAT Known Gaps Page

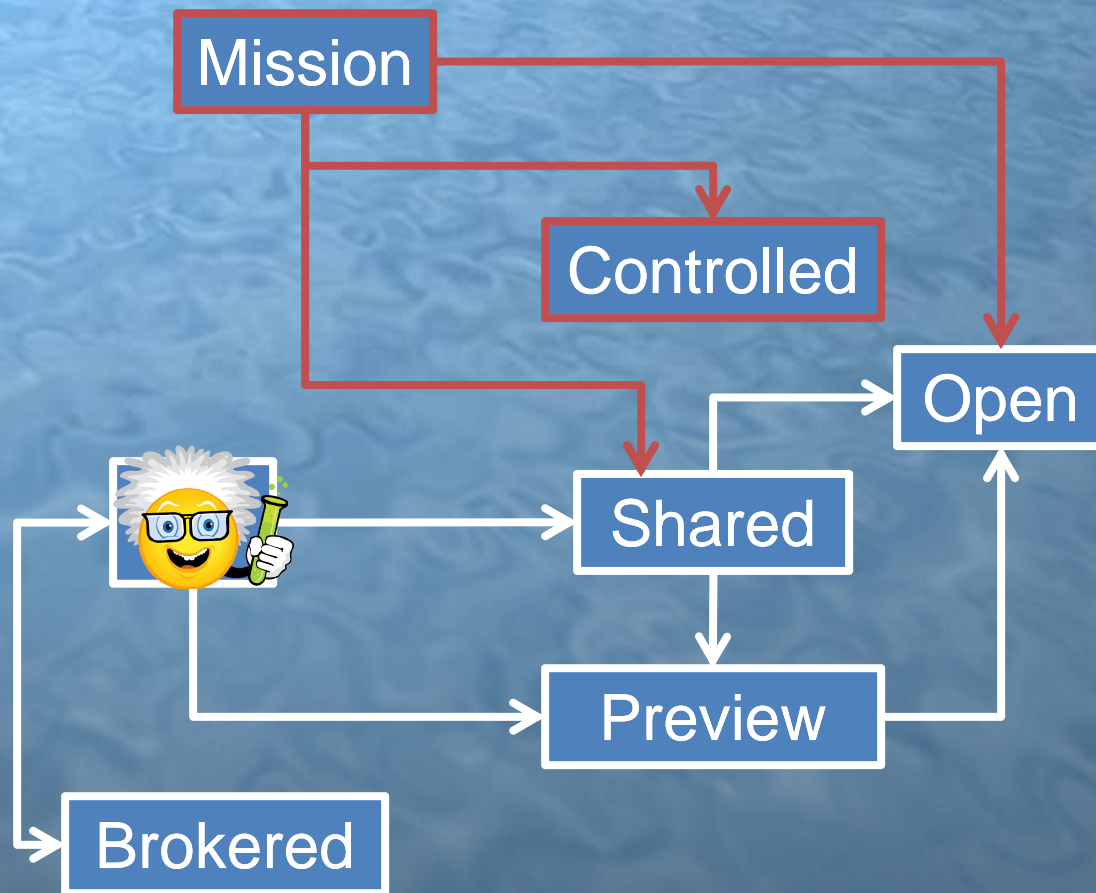
The following table lists all L2B data gaps longer than 4 seconds. Significant gaps are described briefly, and their rev numbers are linked to the appropriate Mission Status and QA Report (in tar format).

Rev	Start Day	Start Time	End Day	End Time	Delta
49191	2008-333	22:24:54.590	2008-333	23:04:48.846	00:39:54.256
49289	2008-340	20:03:35.640	2008-340	20:03:41.029	00:00:05.389
49292	2008-341	00:47:30.361	2008-341	00:47:35.211	00:00:04.850
		00:50:08.273		00:50:14.744	00:00:06.471
49296-49302	2008-341	07:08:15.862	2008-341	18:55:09.177	11:46:53.315
<i>Solid-state data recorder outage.</i>					
49304	2008-341	20:53:27.636	2008-341	20:53:36.258	00:00:08.622
49305	2008-341	23:38:11.868	2008-341	23:38:16.716	00:00:04.848

- QSCAT Revs are denoted by the left column.
- Data outages greater than 3 seconds are recorded.
- Significant gaps occur when concurrent Revs are affected by a spacecraft anomaly.

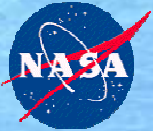


Product Delivery for PIs



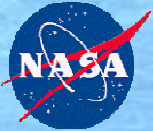
Definitions:

- Open: standard products that have been fully vetted and validated and have full user support.
- Controlled: restricted access due to mission-sensitive data; usually regulated by ITAR.
- Shared: restricted access to products shared within a group of scientists led by the PI.
- Preview: products intended for public distribution but have limited user support due to a lack of vetting or validation.
- Brokered: products are searchable through the web portal but users are re-directed to the PI's FTP server.



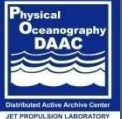
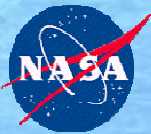
New Ocean Wind CDR: CCMP

- The MEaSUREs Cross-Calibrated Multi-Platform (CCMP) Ocean Surface Wind Components is finally released from Product Preview:
http://podaac.jpl.nasa.gov/DATA_CATALOG/ccmpinfo.html
- Data can be accessed here:
ftp://podaac.jpl.nasa.gov/pub/ocean_wind/ccmp
- This climate data record (CDR) is a continuation of the SSM/I Pathfinder series of “Derived Wind Component” products released by Atlas et al. (1996), which now includes wind measurements from SeaWinds on QuikSCAT and ADEOS-2, as well as AMSR-E and TMI.
- The current data time series extends from July 1, 1987 through June 30, 2008. The complete time series will go through 2012.
- The data is gridded at $0.25^{\circ} \times 0.25^{\circ}$ resolution.



On the Horizon

- Future Candidate Products:
 - ASCAT L2 in NetCDF.
 - David Long's Enhanced Resolution QuikSCAT Sigma0 Image product.
 - New OSCAR 1/3° (coming very soon!)
 - What other products should PO.DAAC distribute?
- Current Tasks:
 - Implementing new archive and advanced search capabilities.
 - Web and FTP redesign in progress.
 - L2 Subsetter development is underway.
- Future Direction:
 - Under new management [Dr. Andrew Bingham]
 - Re-assessing how PO.DAAC can better support its user communities.
 - Expanding product holdings and data tools and services at PO.DAAC.



Sneak Peak: New Web Portal

NASA Jet Propulsion Laboratory
California Institute of Technology

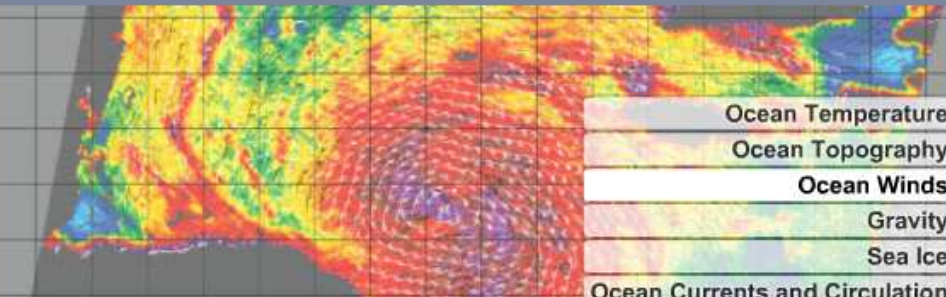
JPL HOME EARTH SOLAR SYSTEM STARS & GALAXIES SCIENCE & TECHNOLOGY
BRING THE UNIVERSE TO YOU: JPL Email News | RSS | Podcast | Video



PO.DAAC PHYSICAL OCEANOGRAPHY DAAC

- Home
- Data Catalog
- Data Catalog (Viewed by Parameters)
- Data Catalog (Viewed by Projects)
- Data Access
- State of the Oceans
- Community Corner
- Help Desk

Data



OCEAN WINDS
SeaWinds on QuikSCAT
SeaWinds on ADEOS-II - NSCAT - Seasat

News & Information

Did you know....
That the Organizing Committee for the FIFA World Cup uses PO.DAAC data to predict the weather at all the up and coming games!
[See more >](#)


Check us out on our Facebook!
henderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas
[See more >](#)

Datacasting
RSS-Based technology for distributing ES
[See more >](#)

News 4
RSS-Based technology for distributing ES
[See more >](#)

News 5
RSS-Based technology for distributing ES
[See more >](#)

Article of the Month



Bill Patzert, has written qui dolorem eum fu giat quo voluptas de nulla pariatur skj kerj ;ejr; welr;e krljawl;rejr !;wkr ;lwj r;lwjer ;ler; ewrjktjt letjetietjkb klsfj,u giat quo voluptas de nulla pariatur skj kerj ;ejr; welr;e krljawl;rejr !;wkr ;lwj r;lwjer ;ler; ewrjktjt letjetietjkb klsfj.
[See more >](#)

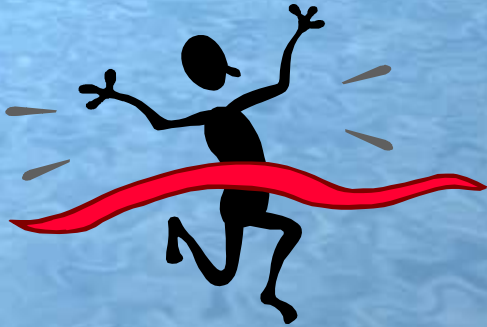
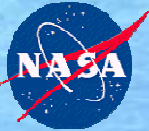
See you at:

- Conference 1**
Conference 1, Italy, April 24, 2009
- Conference 2**
Conference 1, Germany, April 24, 2009



PRIVACY | FAQ | FEEDBACK

Site Manager



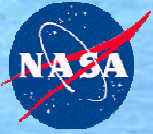
Thank You!
Questions?



DAVID.F.MORONI@JPL.NASA.GOV

Don't Forget to Register:

PODAAC@PODAAC.JPL.NASA.GOV



QuikSCAT Volume and Growth

	Current Volume (TB)	Mean Monthly Growth (GB)
QSCAT L2A 25km	0.8	6.8
QSCAT L2A 12.5km	3.9	33.1
QSCAT L2B 25 km	0.12	1.1
QSCAT L2B 12.5 km	0.47	4.1
QSCAT L3	0.02	0.2
All QSCAT	21.6	131
All PO.DAAC Products	50.6	880

- QSCAT volume is ~44% of total archive.
- QSCAT monthly growth is ~15% of total archive.