



MUG Status Update

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2025 McIDAS Users' Group Meeting

21 May 2025

<https://www.ssec.wisc.edu/mcidas>

MUG Status Update

- **MUG Personnel**
- **What's New in 2025**
- **Who uses McIDAS-X and McIDAS-V?**
- **McIDAS User Support**
- **How long will McIDAS-X be supported?**

MUG Personnel

Current MUG Staff

Kevin Baggett:	-XCD programming
Jon Beavers:	-V & pyADDE programming
Bob Carp:	Help Desk & testing -V documentation & programming
Jay Heinzelman:	Help Desk & testing -X documentation & programming
Dave Parker:	Systems programming

MUG Personnel Programmers

McIDAS-X

SSEC:

Tommy Jasmin

Rick Kohrs

Tim Olander

Dave Santek

Dave Stettner

McIDAS-V

SSEC:

Ansh Aggarwal

Tommy Jasmin

Tom Rink

Unidata:

Julien Chastang

Yuan Ho

MUG Personnel Unidata Collaboration

Working Together on VisAD, IDV, McIDAS-V and McIDAS-X

- **Monthly –V / IDV Teleconferences**
- **MUG Testers helping to test new functionality in IDV**
- **Code exchanges between McIDAS-V and IDV**
- **McIDAS-X programming**

MUG Personnel Unidata Collaboration

Unidata currently provides McIDAS-X & XCD free of charge to educational institutions

Why that's important:

- Future meteorologists learning McIDAS-X before entering the “real” world is important for the future of McIDAS**
- Current websites like College of DuPage and Embry-Riddle are important online sources of satellite imagery and they use McIDAS-X for the majority of their imagery**

What's New in 2025?

McIDAS-X OS Support

Vendor	Operating System	
Apple	macOS 13 (2024.1 only)	gcc / gfortran 13.1 compilers
	macOS 14 & 15	Podman container with Rocky Linux 9 - new in 2024.1
	** will support Podman containers on macOS 16 when fully supported at SSEC	

What's New in 2025?

McIDAS-X OS Support

Reasons for transition from native OS (Darwin) to a containerized Linux kernel (Rocky Linux 9).

- **Xcode does not use GNU compilers**
- **gfortran is not available in Xcode**
- **Reliance on “homebrew” for compilers and support libraries**
- **macOS Gatekeeper is becoming more restrictive about running non-signed binaries. Difficult to manage signing because:**
 - **McIDAS-X is composed of many small standalone binaries that communicate via shared memory**
 - **User-generated binaries must also be signed**

What's New in 2025?

McIDAS-X OS Support

Vendor	Operating System	Compilers Supported
Microsoft	Windows 11 with WSL (Windows Subsystem for Linux)	gcc / gfortran 11.4
	Ubuntu 22.04.5 LTS	
	** Windows 10 will reach EOL support from Microsoft October 14, 2025, and no longer be supported by MUG in the next release.	

What's New in 2025?

McIDAS-X OS Support

Vendor	Operating System	Compilers Supported
Red Hat	Red Hat Enterprise Linux (RHEL)	gcc / gfortran
	RHEL 9.5 - new in 2023.1	11.5
	RHEL 8.1	8.5

Who uses McIDAS-X?

Current MUG Members

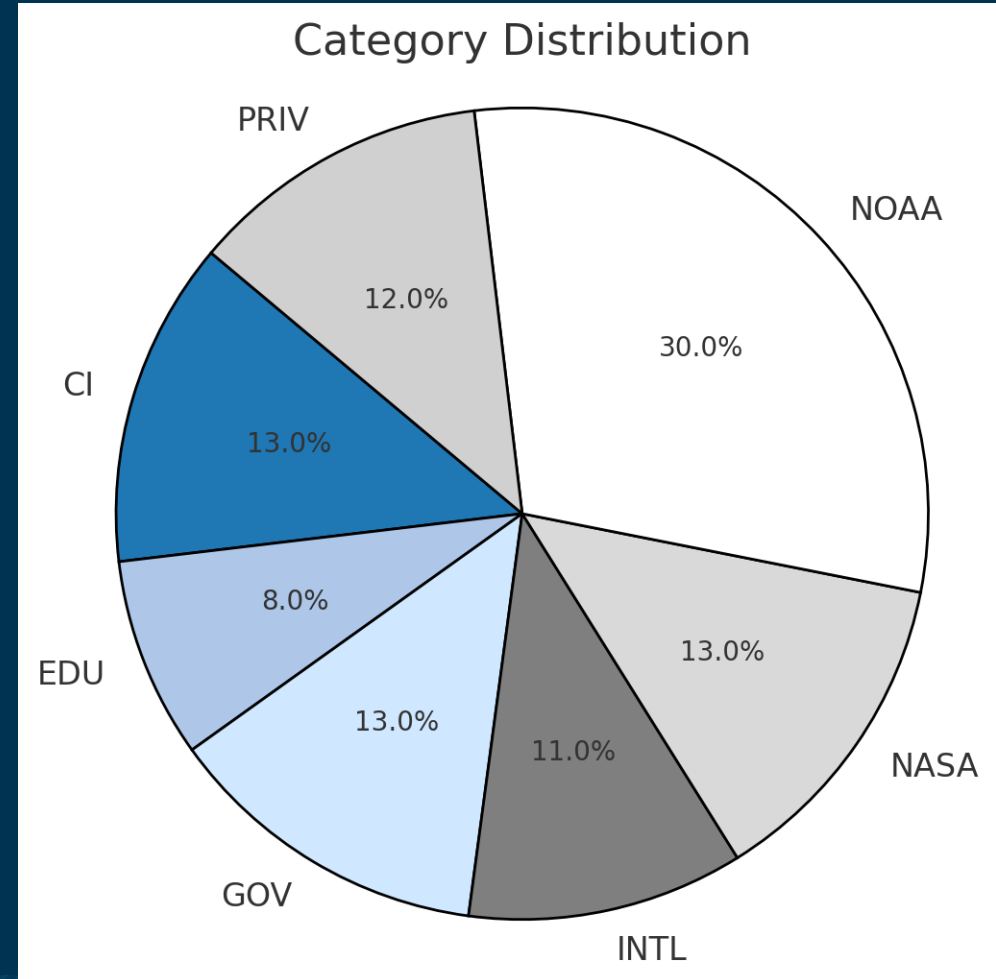
<p>NOAA</p> <p>CLASS ESPC NCEP CENTRAL OPERATIONS NWS - PACIFIC REGION STAR</p> <p>NOAA – CI</p> <p>CIMSS/SSEC CIRA</p> <p>EDUCATION</p> <p>UNIDATA</p>	<p>NASA</p> <p>COLUMBIA SCIENTIFIC BALLOON FACILITY JOHNSON SPACE CENTER LANGLEY RESEARCH CENTER</p> <p>GOVERNMENT / MILITARY</p> <p>CAPE CANAVERAL SFS NTSB PATRICK AFB CDD</p>	<p>PRIVATE</p> <p>ACCUWEATHER BOEING ENSCO REDTOWN SERVICES – KWAJALEIN ATOLL</p> <p>INTERNATIONAL</p> <p>AUSTRALIA – BoM MEXICO – AIR FORCE MEXICO – HIDROMET SPAIN – AEMet</p>

Who funds McIDAS-X? Current MUG Members

McIDAS support and maintenance is funded 100% by MUG Membership Fees

Additional funding pays for special projects:

- SSEC Funds – ABI python servers & database work
- NOAA / AMRDC – MTG & MetOp-SG python servers
- CIRA – VIIRS development



Who uses McIDAS-V?

McIDAS-V is now used in...

- **research projects & publications**
- **satellite blogs**
- **satellite meteorology classes**
- **visualization of EUMETCast and GEONETCast**
- **international training courses: EUMETSAT, CIRA**
- **private industry**

**Funded mostly by MUG with special projects
funded by CIRA & EUMETSAT**

Who uses McIDAS-V?

From the Usage Statistics

1.2 MILLION Uses in 2024 !

18 MILLION Total Uses !

- each time a script is run or McIDAS-V is started

1450 Members of the McIDAS-V Forums !

Users of McIDAS-V are encouraged to answer forum questions of other users and share their knowledge & expertise.

McIDAS Support

User Support Requests

With so many new non-paying users,
how do we prioritize our support?

1. McIDAS-X, –XCD and SDI questions from MUG members to the *McIDAS Help Desk*
2. McIDAS-V questions from MUG members to the *Help Desk and Support Forums*
3. McIDAS-V questions from non-MUG users to the *Support Forums*

ALL bug reports are put into the McIDAS Inquiry System

	2024
McIDAS-X Inquiries	106
McIDAS-V Inquiries	59
McIDAS-V Forum Posts	38

McIDAS Support

How long will -X be supported?

- **SSEC plans to support McIDAS-X through the current GOES-R Satellite Series, which is currently listed as 2039
NO END DATE IN SIGHT!!!**
- **MUG members will continue to receive priority support for -X and -V**
- **Continue to release -X as needed for bugs, updates, improvements, and new OS & data/satellite changes (1-2 times per year)**
- **No plans for support fee structure changes**

McIDAS Support

How long will -X be supported?

Important Programming & User Issues

- ADDE written in Fortran and C – Python!
- Larger datasets mean larger images, maps, and grids – improvements have been made
- -X tcl / tk GUI more fragile with each OS upgrade
- Display Quality Issues with fonts and labels

Always looking for new funding sources for special projects

- NOAA / AMRDC – MetOp-SG python servers
- ??? – GEOXO python servers

McIDAS Support

Looking for more user input!

Especially with the availability of free GOES ABI viewers ...

We've had 3 large sites tell us that they've done studies to look for options other than McIDAS

- **Their findings: McIDAS is the best!**
- **Gave us a punch list on things to improve, sometimes with funding, sometimes with no funding**
- **If you're looking for options, let us know. We can help!**

McIDAS Support

Looking for more user input!

- 1. Use McIDAS-V Support Forums or contact the McIDAS Help Desk**
- 2. Fill out the MUG Meeting Survey to be sent later this week**
 - Suggestions for improving McIDAS or the MUG Meeting?**
 - What data types do you need to read/write with McIDAS?**
 - On what platform(s) do you currently run McIDAS?**
 - Do you use the McIDAS-X GUI?**
 - Add your comments at the end of the survey!**
- 3. If you have specific development needs, contact me or the Help Desk about helping to fund site-specific development.**

In Summary...

McIDAS Users' Group is still going strong!

- **MUG Membership staying steady for large sites using -X, -XCD and SDI -- still our #1 Priority**
- **McIDAS-X will be fully supported, updated & maintained at least through the GOES-R Series (2039)**
- **McIDAS-V usage still growing and user forums have been a success**
- **We're always looking for new funding sources, large or small**

In Summary...

**We need input from you
to make all of McIDAS better
for everyone!**

THANK YOU!!!