McIDAS Users’ Group
MUG Update

Becky Schaffer
Program Manager
McIDAS User Services
MUG Update

- What’s New in 2012
- MUG Personnel
- McIDAS-V
- McIDAS Support
What’s New in 2012 – New MUG Members

- Energia Logistics Ltd.
  - Long Beach, California
- Masdar Institute of Science and Technology
  - Abu Dhabi, United Arab Emirates
- Northrop Grumman Information Systems
  - McLean, Virginia
- Weathernews America, Inc.
  - Norman, Oklahoma

There are currently 41 total MUG sites, which has stayed at ~40 sites for 10+ years.
What’s New in 2012 – OS Support for -X

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Operating System</th>
<th>Compilers Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple - Mac</td>
<td>OS X 10.6.8</td>
<td>gfortran 4.6</td>
</tr>
<tr>
<td>Mac Intel</td>
<td></td>
<td>gcc 4.2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(packaged with Xcode)</td>
</tr>
</tbody>
</table>

We will evaluate Mac OS X 10.7 (Lion) when it's supported at the University of Wisconsin SSEC.
## What’s New in 2012 – OS Support for -X

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<tr>
<th>Vendor</th>
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<tbody>
<tr>
<td>HP</td>
<td>HP-UX 11.11</td>
<td>HP Fortran 90 3.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HP C/ANSI C 11.11.16</td>
</tr>
</tbody>
</table>

Support for McIDAS-X on HP-UX was originally sunset with the 2006 upgrade, but was extended through 2009 due to the Australian BoM agreeing to pay the support costs for three additional years and purchasing a new HP workstation for the MUG. Australia and Cape Canaveral have shared the support costs for 2010 – 2012. Thank you!
What’s New in 2012 – OS Support for -X

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<tr>
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<tbody>
<tr>
<td>IBM</td>
<td>2011.1 was the final version supported. As of 30 April 2012, AIX 5.3.x will no longer be supported by IBM (EOL), and McIDAS-X is no longer supported on AIX.</td>
<td></td>
</tr>
</tbody>
</table>
## What’s New in 2012 – OS Support for -X

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<tr>
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<th>Compilers Supported</th>
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<tbody>
<tr>
<td>Microsoft</td>
<td>Windows XP Professional SP3 &amp; SFU 3.5</td>
<td>g77 3.3, gcc 3.3 (packaged with SFU 3.5)</td>
</tr>
<tr>
<td></td>
<td>Windows 7 Enterprise with SUA</td>
<td>g77 3.3, gcc 3.3 (packaged with SUA)</td>
</tr>
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</table>

January 2013 -- Sunset Windows XP support (approximately one year after support of Windows 7 was added in McIDAS-X 2011.1).
## What’s New in 2012 – OS Support for -X

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<tr>
<td>Red Hat</td>
<td>Enterprise Linux WS</td>
<td>gfortran 4.1.2 gcc 4.1.2</td>
</tr>
<tr>
<td></td>
<td>5.7 Intel</td>
<td>gfortran 4.4.5 gcc 4.4.5</td>
</tr>
<tr>
<td></td>
<td>6.1 Intel</td>
<td></td>
</tr>
</tbody>
</table>

We will evaluate 7.0 when it's supported at the University of Wisconsin SSEC.
## What’s New in 2012 – OS Support for -X

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<td>Enterprise Linux WS</td>
<td>gfortran 4.1.2</td>
</tr>
<tr>
<td></td>
<td>5.2 PPC</td>
<td>gcc 4.1.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESPC funded the additional hardware</td>
</tr>
<tr>
<td></td>
<td></td>
<td>needed for PPC support.</td>
</tr>
</tbody>
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## What's New in 2012 – OS Support for -X

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<th>Compilers Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUN</td>
<td>Solaris 10 OS SPARC</td>
<td>Sun Studio 11 Fortran &amp; C -or- g77 3.4.6 &amp; gcc 3.4.6</td>
</tr>
<tr>
<td></td>
<td>Solaris 10 OS x86</td>
<td>g77 3.4.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>gcc 3.4.6</td>
</tr>
</tbody>
</table>
What’s New in 2012 –
2013 MUG Fees Announced

2013 MUG Fees
McIDAS (increased 5% over 2012)
SX (1-2 workstations) $ 8,100
DX (3-5 workstations) $16,200
MX (6+ workstations) $32,400
XCD (increased 5% over 2012) $11,700
SDI (remained the same as 2012) $ 8,340
MUG Personnel - New Team Members

Bob Carp (new in November 2010)
- Meteorology degree from Millersville University
- Testing, documentation, training and help desk, mainly in McIDAS-V

Mike Hiley (new in January 2012)
- Part-time student programmer this semester
- Full-time employee after graduation
- Master’s degree in Atmospheric Science
- First task – scripting tools in McIDAS-V
MUG Personnel – Current MUG Staff

Kevin Baggett: -XCD programming
Jon Beavers: -V programming
Bob Carp: Help Desk, testing, and documentation
Jay Heinzelman: Help Desk and testing
Mike Hiley (student): -V programming
Rick Kohrs: Help Desk and programming
Dave Parker: Systems programming
Barry Roth: Help Desk and documentation
MUG Personnel – Programmers

- **McIDAS-X**
  - Russ Dengel
  - Scott Lindstrom
  - Dave Santek

- **McIDAS-V and VisAD contributors**
  - Nick Bearson
  - Tommy Jasmin
  - Tom Rink
  - Curtis Rueden
  - Tom Whittaker
  - NOAA’s Don Murray
## McIDAS-V – Release History

<table>
<thead>
<tr>
<th>Version</th>
<th>Release Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta1</td>
<td>2009 AMS Meeting (January 2009)</td>
</tr>
<tr>
<td>1.0</td>
<td>2010 EUMETSAT Meteorological Satellite Conference (September 2010)</td>
</tr>
<tr>
<td>1.01</td>
<td>2011 NOAA Satellite Direct Readout Conference (April 2011)</td>
</tr>
<tr>
<td>1.2</td>
<td>2012 McIDAS Users’ Group (May 2012)</td>
</tr>
</tbody>
</table>
McIDAS-V –
Usage & Download Statistics

Usage (non-SSEC IP addresses)
- 2009 – 2,000 / month
- 2010 – 4,600 / month
- 2011 – 8,300 / month

Percent Usage by Platform (2011)
- 39% - Windows 7
- 23% - Windows XP
- 15% - Mac OS X
- 14% - Linux
- 9% - Windows Vista
- ~0% - Solaris

In 2011, 1,819 unique IP addresses from 90 countries downloaded McIDAS-V
McIDAS-V –
Training and Outreach

Demonstrations in 2011

- AMS Meeting
  Seattle WA (January)
- Satellite Direct Readout Conference
  Miami FL (April)
- GOES-R AWG Annual Meeting
  Fort Collins CO (June)
- EUMETSAT Meteorological Satellite Conference
  Oslo, Norway (September)
- AGU Conference
  San Francisco CA (December)
McIDAS-V –
Training and Outreach

Training Workshops

• China Meteorological Administration
  Beijing, China (June 2011 and June 2012)
  - Attended by 50 scientists from 15 countries

• Mexico National Water Commission
  Mexico City, Mexico
  (-X and -V Training: conducted at SSEC - October)

...plus countless demonstrations, talks, and training sessions conducted at SSEC, at conferences, and at other research institutions
McIDAS-V – Unidata Collaboration

Working Together on visAD, IDV, -V

- Combined –V / IDV Developers Meeting in Madison, November 2011
- Monthly Teleconferences
- Beginning to merge our developer tools (git, redmine)
- MUG testers helping to test new functionality coming from IDV
# McIDAS-V – Main Funding Sources

**GOES-R**
- Continued development of HYDRA & scripting tools
- Development of tools to evaluate Operational Algorithms and Risk Reduction projects

**Suomi NPP / JPSS**
- Development of polar data acquisition and analysis
- VIIRS and CrIS in McIDAS-V

**EUMETSAT**
- Development of MSG HRIT & compressed file readers

**McIDAS Users’ Group**
- Supporting the transition from –X to –V
- Providing user support
- User interface & data access (e.g. servers, new formats)
McIDAS Support – McIDAS-V Support Forums

- Announced in January 2009 with beta 1 release
- Currently, we have...
  - 805 members!!!
  - 652 topics
  - 2,335 posts
- Users of McIDAS-V are encouraged to answer the forum questions of other users and to share their knowledge and expertise.

http://www.ssec.wisc.edu/mcidas/forums
<table>
<thead>
<tr>
<th><strong>McIDAS Support – McIDAS-V Support Forums</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MUG members receive priority support</strong></td>
</tr>
<tr>
<td>- Make sure you inform the Help Desk when you join the forum</td>
</tr>
<tr>
<td><strong>Non-MUG members receive limited Help Desk support “as time allows”</strong></td>
</tr>
<tr>
<td>- Users with multiple requests or who need faster responses to their questions need to join MUG</td>
</tr>
</tbody>
</table>

**McIDAS-V Team Members**
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
2. McIDAS-V questions from MUG members
3. McIDAS-V questions from non-MUG users

ALL bug reports are put into the McIDAS Inquiry System
## McIDAS Support – User Support Requests

<table>
<thead>
<tr>
<th>Year</th>
<th>-X Inquiries</th>
<th>-V Inquiries</th>
<th>-V Forum Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>405</td>
<td>24</td>
<td>n/a</td>
</tr>
<tr>
<td>2008</td>
<td>318</td>
<td>246</td>
<td>n/a</td>
</tr>
<tr>
<td>2009</td>
<td>236</td>
<td>336</td>
<td>165</td>
</tr>
<tr>
<td>2010</td>
<td>245</td>
<td>253</td>
<td>195</td>
</tr>
<tr>
<td>2011</td>
<td>221</td>
<td>221</td>
<td>220</td>
</tr>
</tbody>
</table>
McIDAS Support –
How long will –X be supported?

- Plan to continue to release –X as needed for bugs & data/satellite changes (1 or 2 times per year)
- Plan to support –X through the current GVAR program, which looks like it will be about 2020
- No immediate plans for support fee structure changes
  - MUG members will continue to receive priority support for –X and –V
  - Until –V can fully function as a replacement for –X, which will be years down the road, not much will change.
- New development likely done in –V rather than –X
McIDAS Support –
Your Transition from –X to -V

McIDAS-X will be supported through the current GVAR program, which looks like it will be about 2020.

New feature development will likely be done in -V rather than in -X, but -X is still being supported.

- We’re still updating for OS upgrades.
- We’re still creating servers for new satellites.
- If -X works for you, then stay with -X. When new features or data types come along in -V, then do your new development in -V.
- If you need help with the new development, contact the McIDAS Help Desk.
McIDAS Support –
Looking for more user input!

1. Use the McIDAS-V Support Forums
2. Join the McIDAS Advisory Committee
3. Fill out the Site Survey at the end of the meeting on Tuesday
   - What features should be in version 2.0?
   - Interested in nightly builds?
   - Your estimated timeline for beginning your switch from -X to -V
4. If you have specific development needs, contact me about helping to fund development
In Summary...

McIDAS Users’ Group is still going strong!

- MUG Membership staying steady for –X, -XCD, and SDI
- –X, -XCD, and SDI Support still our #1 Priority
- Despite budget cuts, we’re still receiving financial support of McIDAS-V from research groups
- McIDAS-V downloads and forum membership growing every day
- We need more input from you to make all of McIDAS better for everyone
Looking Ahead to 2013

2013 is the...

40\textsuperscript{th} anniversary of McIDAS
24\textsuperscript{th} anniversary of the MUG

THANK YOU!!!