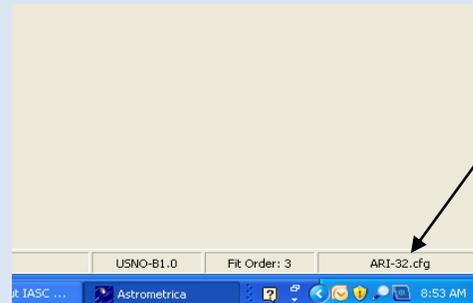
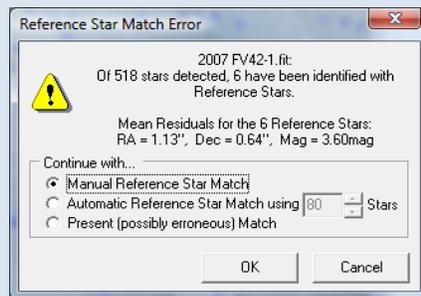


1. **Configuration files not found.**

Solution:

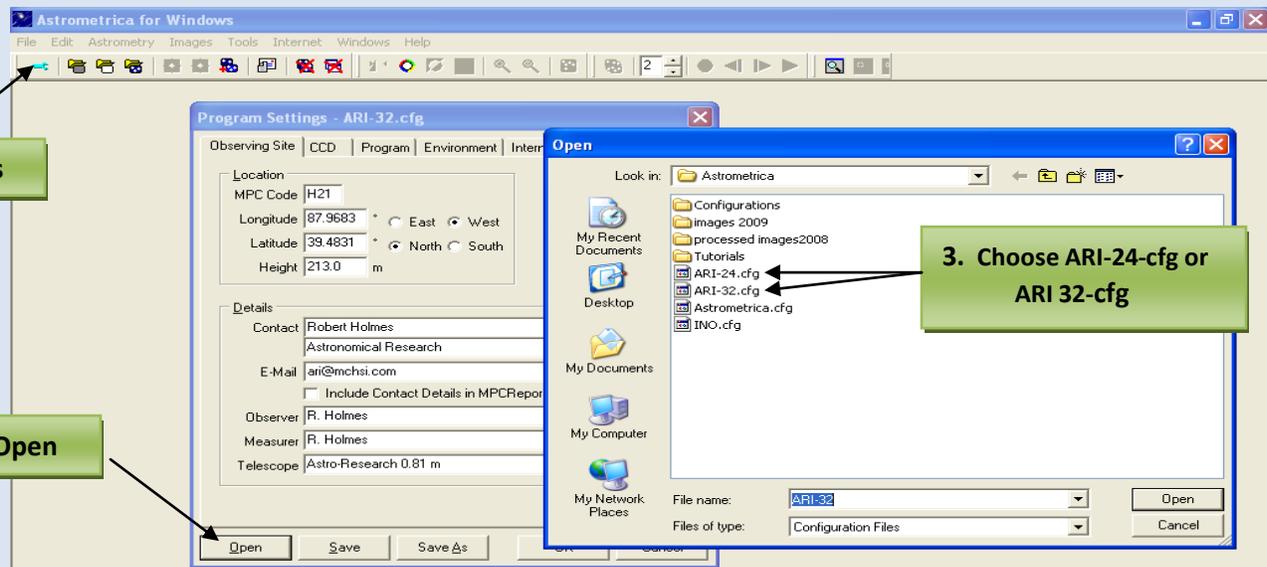
When setting up *Astrometrica* and downloading the zipped configuration files (ARI-24.cfg and ARI-32.cfg), they might open in a separate folder when unzipped. You must move both unzipped configuration into the *Astrometrica* folder found under Program Files.

2. **Reference Star Match Error.**

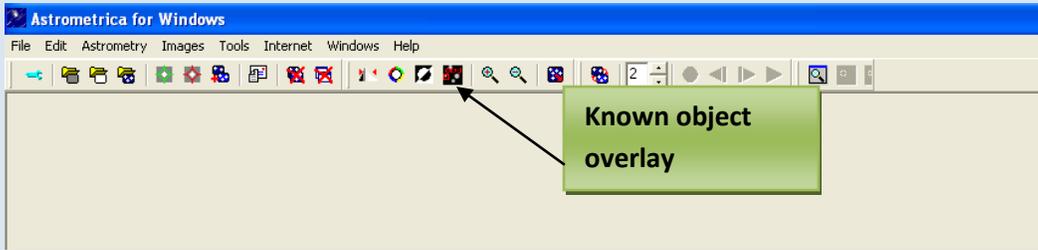


Note which "config" file is loaded.

Check that the proper configuration ("config") file is loaded. If you are analyzing an image from the 24-inch telescope, use ARI-24.cfg. For the 32-inch, use ARI-32.cfg. To do this, go to **Settings -> Open -> Choose the configuration file -> Save**. If you are using the correct configuration file then **Select Automatic Reference Star Match -> OK**. This may have to be repeated twice.

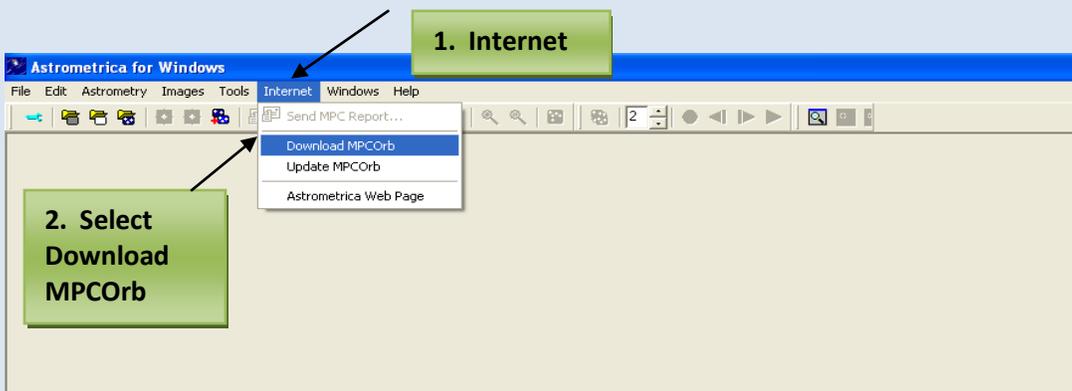


3. Known object overlay button does not work. Flashes and does not identify known objects.

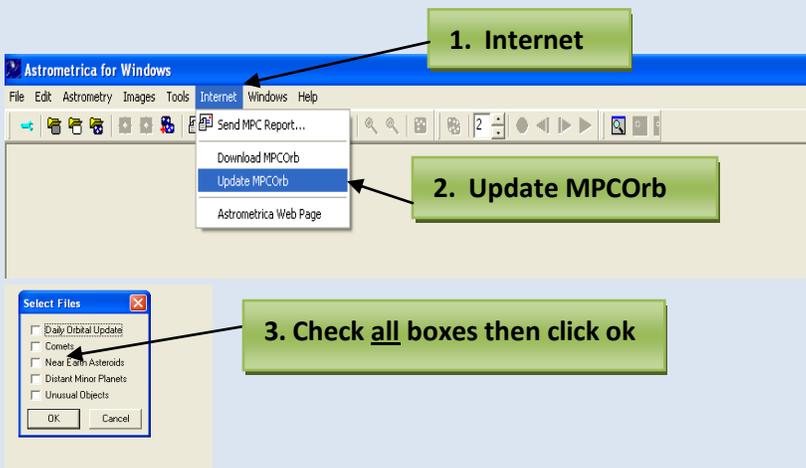


Solution:

MPC Database has not been downloaded. On *Astrometrica* home page, click on Internet then download MPCOrb. Restart *Astrometrica* after download is complete.*



You must update the MPC report at the start of each day. Internet -> Update MPCOrb -> Check all boxes -> OK



***Note: If MPC database fails to download see #7.**

4. **Object identification window is blank.**

The screenshot shows the Astrometrica software interface. The main window displays a star field with a red dot indicating the object of interest. A green callout box labeled "1. Object Designation" points to the "Object Designation" field in the "Verify Object" window, which contains a question mark. Another green callout box labeled "2. After selecting the Object Designation - this window opens and if it is blank, then the MPC database is not downloaded." points to the "Object Identification" window, which is currently blank. The "Verify Object" window shows the following data:

Verify Object 1/16 (0.83"/min, PA 106.9°)

2009 WA105-3.fit
2009 11 29 10817 (2:35:46 UT)
RA = 03 14 29.70 De = +45 21 53.0 V = 16.6

Object Designation: ?

PSF-Fit:
x = 938.0
y = 831.0
SNR = 31.0
Flux = 5059
FWHM = 2.7"
Fit RMS = 0.041

The "Object Identification" window shows the following table:

Designation	Packed	dRA	dDe	mag	Speed	PA
2009 WA105	K09WA5A	-7.4'	-1.8'	18.6mag	14.04"/min	34.8°
(85267) 1994 AD2	85267	-9.0'	-17.2'	18.1mag	0.70"/min	223.4°
2003 SQ14	K03S14Q	+23.4'	+28.5'	19.3mag	0.51"/min	255.7°
(67378) 2000 OC3	67378	-43.9'	-37.3'	18.5mag	0.85"/min	225.4°

The "Data Reduction Results" window shows the following table:

Image	Stars	Ref. Stars	Ref./Ast.	Fit Order	dRA	dDe	Ref./Phot.	dmag
2009 WA105-1.fit	1809	1248	1017	3	0.13"	0.12"	1218	0.25mag
2009 WA105-2.fit	1777	1245	1014	3	0.13"	0.12"	1204	0.26mag
2009 WA105-3.fit	1754	1236	998	3	0.12"	0.12"	1196	0.26mag

The Windows taskbar at the bottom shows the start button, several open applications (Inbox, My Home, FAQ about IASC 97, Astrometrica), and the system tray with the time 1:09 PM.

Solution:

MPC database is not downloaded. See #3 from above for download instructions.

5. Update current settings: Location

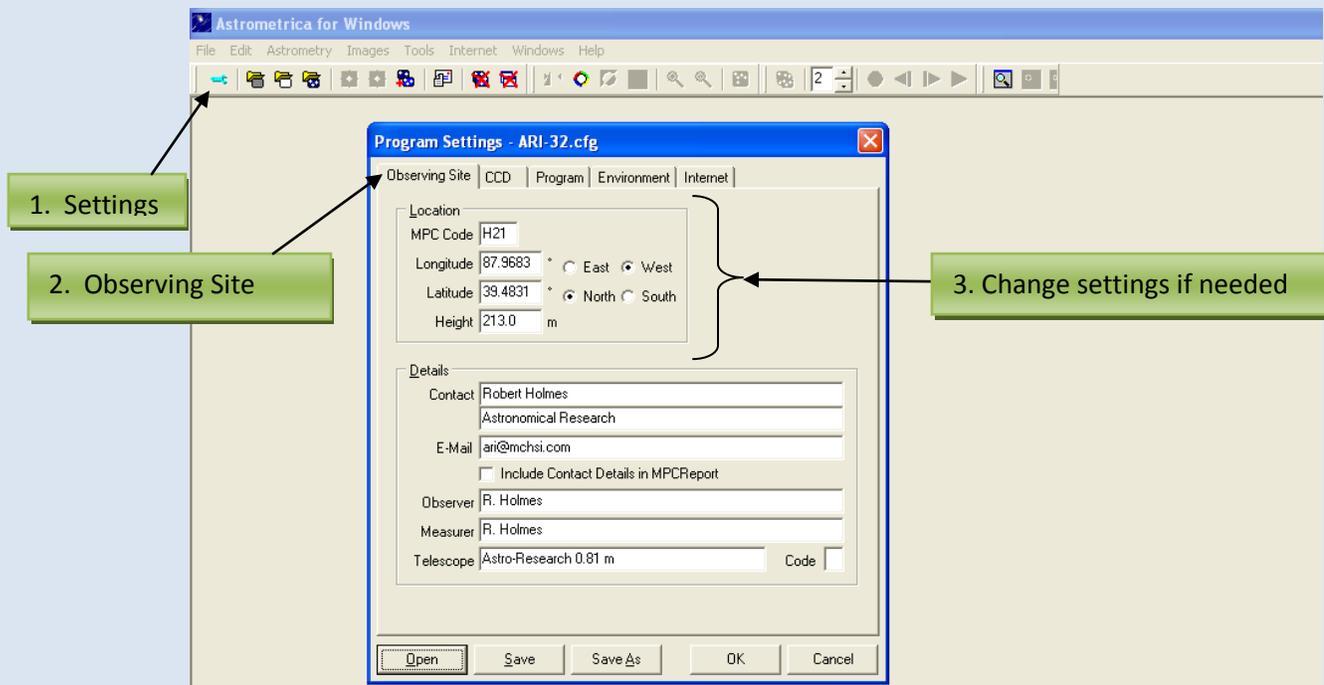
MPC code: H21

Longitude: 87.9683 West

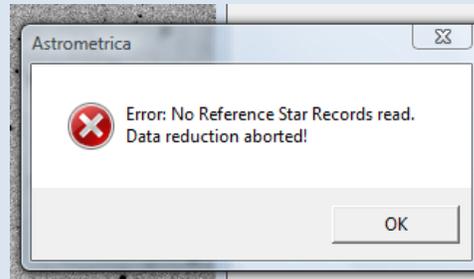
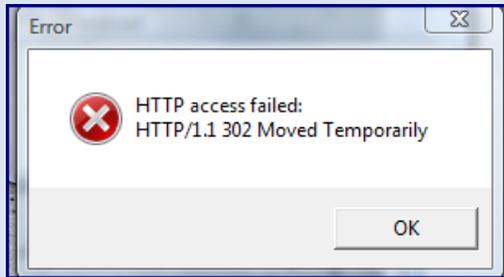
Latitude: 39.4831 North

Height: 213.0 m

To update: Settings -> Observing Site -> Change settings -> Save -> OK. This must be done for both the ARI-24 and ARI-32 configuration files.



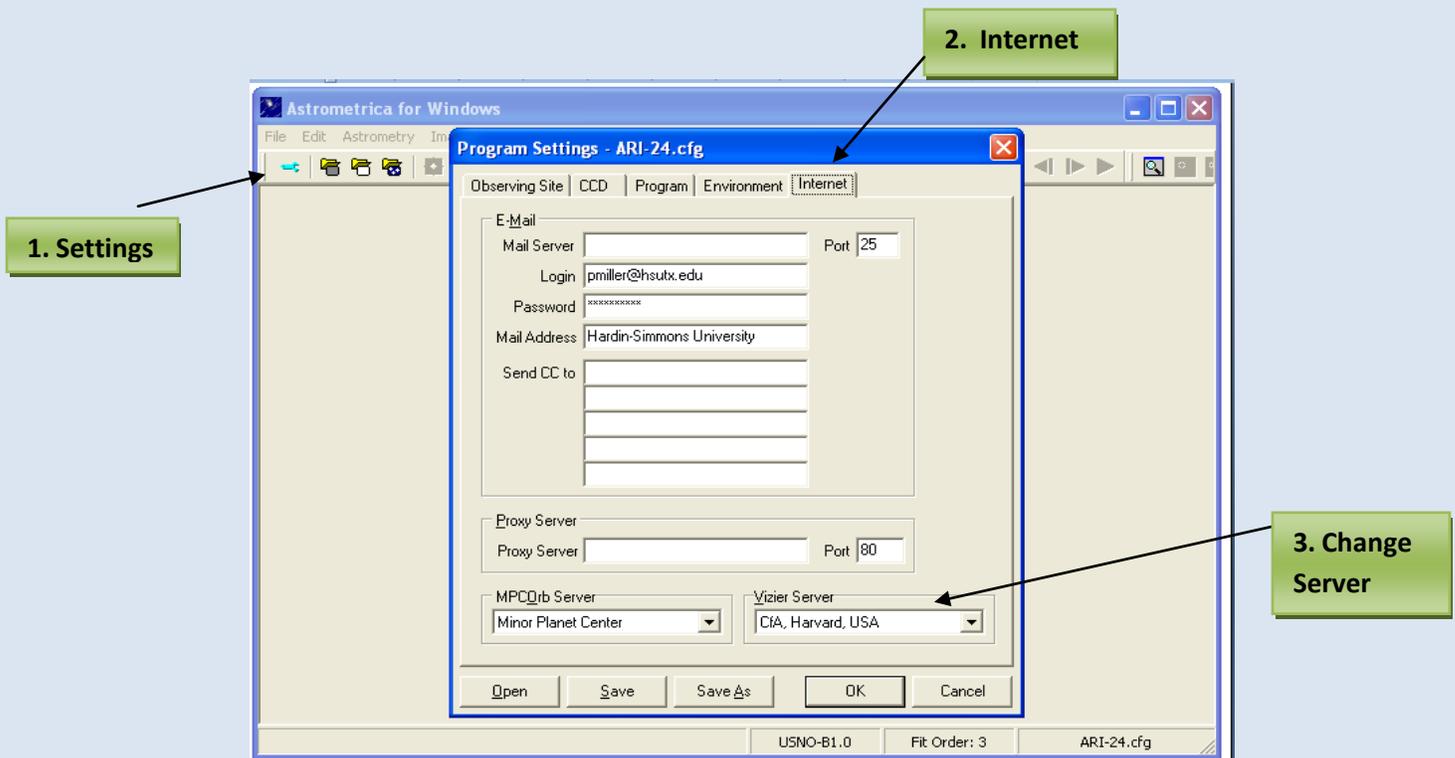
6. **Http: access failed on first window, second window reads No reference star records read.**



Solution

Change the VizieR Server: Settings -> Internet -> VizieR Server window-choose another server -> Save -> OK.

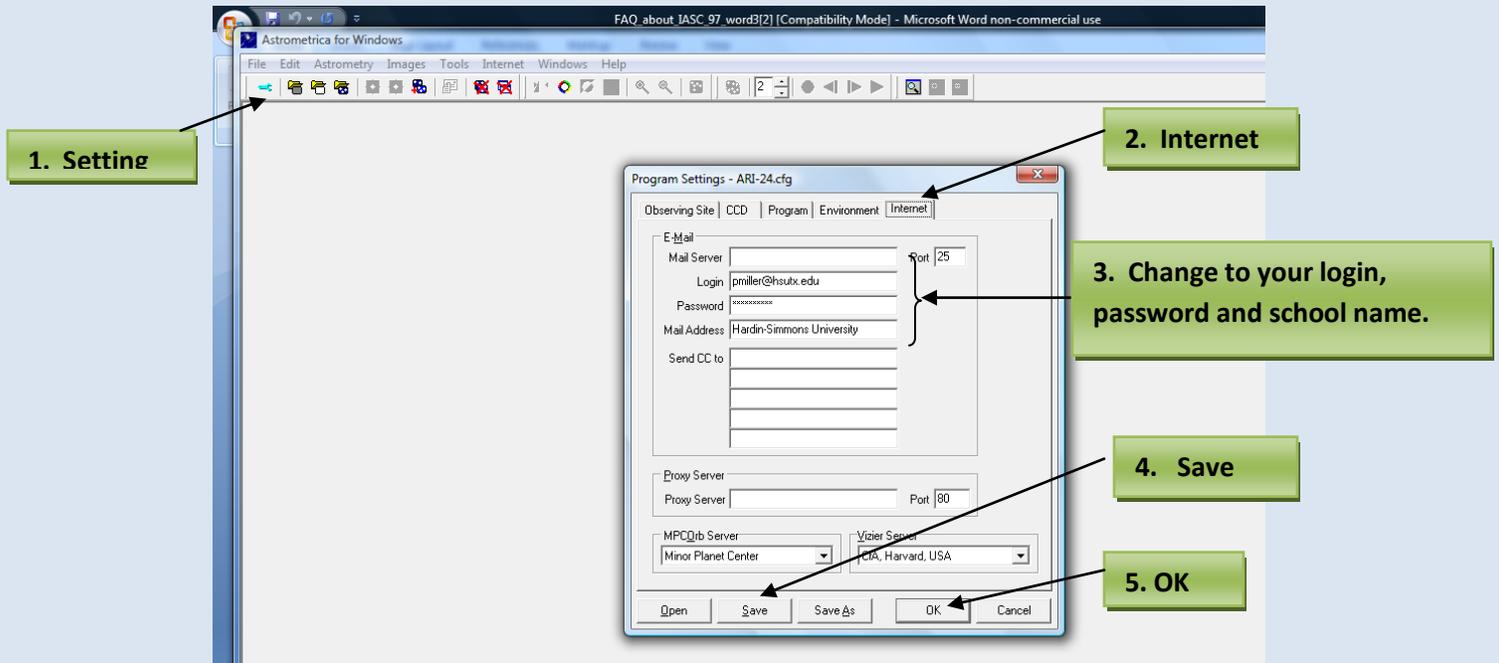
At the moment the best VizieR Server to choose is CfA, Harvard, USA. You must change both the ARI-24 and ARI-32 configuration files.



7. **MPCOrb database fails to download.**

Solution #1: Socket Error

**For both ARI-24.cfg and ARI-32.cfg you need to Load configuration file
-> Settings -> Internet -> Change Internet settings to your own -> Save
-> OK.**



Repeat the process for each configuration file. Restart *Astrometrica* and upload the MPC Orbital Database. If this does not work, go to **Solution #2 to manually download the MPCOrb database. See number 8 for manual download**

Solution #2: Manual download MPCOrb database.

This error could be due to a firewall issue therefore, the current MPCOrb database must be downloaded manually at the start of each day.

Go to the IASC webpage: <http://iasc.hsutx.edu/> at the bottom of the home page the most current MPCOrb database is located. Download

the database onto your desktop then unzip into the *Astrometrica* folder, usually found in Program Files.

Home - Windows Internet Explorer
http://iasc.hsutx.edu/

May 17	Jun. 30, 2010	All-India Asteroid Search Campaign
Jul. 1	Aug. 13, 2010	All-India Asteroid Search Campaign
Aug. 23	Oct. 8, 2010	International Asteroid Search Campaign
Aug. 23	Oct. 8, 2010	NASA WISE Asteroid Search Campaign
Oct. 18	Dec. 3, 2010	NASA WISE Asteroid Search Campaign
Oct. 18	Dec. 3, 2010	NEO+ Confirmation Campaign

*Closed

If your school would like to participate in the IASC search campaigns, contact the IASC Director, Dr. J. Patrick Miller by email at pmiller@hsutx.edu. Campaigns usually fill up 60 days prior to their starting date.

32" Prime Focus Telescope
Astronomical Research Institute

24" Prime Focus Telescope
Astronomical Research Institute

24" Nighthawk CC06 Telescope
Sierra Stars Observatory

15" Rigel OMI Telescope
Sierra Stars Observatory

[MPC Orbital Database](#)
January 28, 2010 (04:00 UT).

[ARI Observatory Cloud Coverage](#)

HARDIN SIMMONS

Internet | Protected Mode: On | 100%

MPC Orbital Database