

# SpaceCalNYC

Space Apps Challenge, April 21st 2013

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With thanks to AWS for providing hosting, 10Gen for MongoDB support, Github for code collaboration, and to the NASA satellites for the telescope information

# What's the current mySpaceCal.com?

Missing Data

There are billions of sources.  
One ID code isn't helpful

The screenshot shows the mySpaceCal website interface. At the top, the logo 'mySpaceCal' is displayed. Below it, there is a filter bar with checkboxes for various astronomical instruments: AGILE, Chandra, Fermi, INTEGRAL, MOSTAR, RXTE, Suzaku, Swift, XMM-Newton, and Herschel. The 'Herschel' checkbox is circled in orange. Below the filter bar, there is a search bar and a 'Show:' dropdown menu. The main content area displays a calendar for April 2013. The calendar shows dates from Sunday, April 21st to Saturday, April 27th. Various astronomical sources are listed in blue boxes on the calendar. The 'NGC2451field1' entry on Thursday, April 25th, is circled in orange. The 'MWC560' entry on Friday, April 26th, is also circled in orange. An arrow points from the 'Missing Data' text to the 'Herschel' checkbox. Another arrow points from the 'There are billions of sources. One ID code isn't helpful' text to the 'NGC2451field1' entry. A third arrow points from the 'Not up to date' text to the 'MWC560' entry.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31 IGRJ17354-3255 PLCKESZG347.18-27.35 RXCJ2031.8-4037	1 4U1735-444	2 PLCKESZG345.40-39.34 AM2107-474	3 RXJ2059.9-4245	4 NGC2451field1	5 SPT-CLJ2109-4626	6 SDSSJ082247.6+2241 2MJ0752239+161215
7 PSRJ0726-2612	8 CSS081231	9 PLCKESZG000.44-41.83	10 NGC2359	11 NGC2451field4 MWC560	12 NGC2451field2	13

Not up  
to date



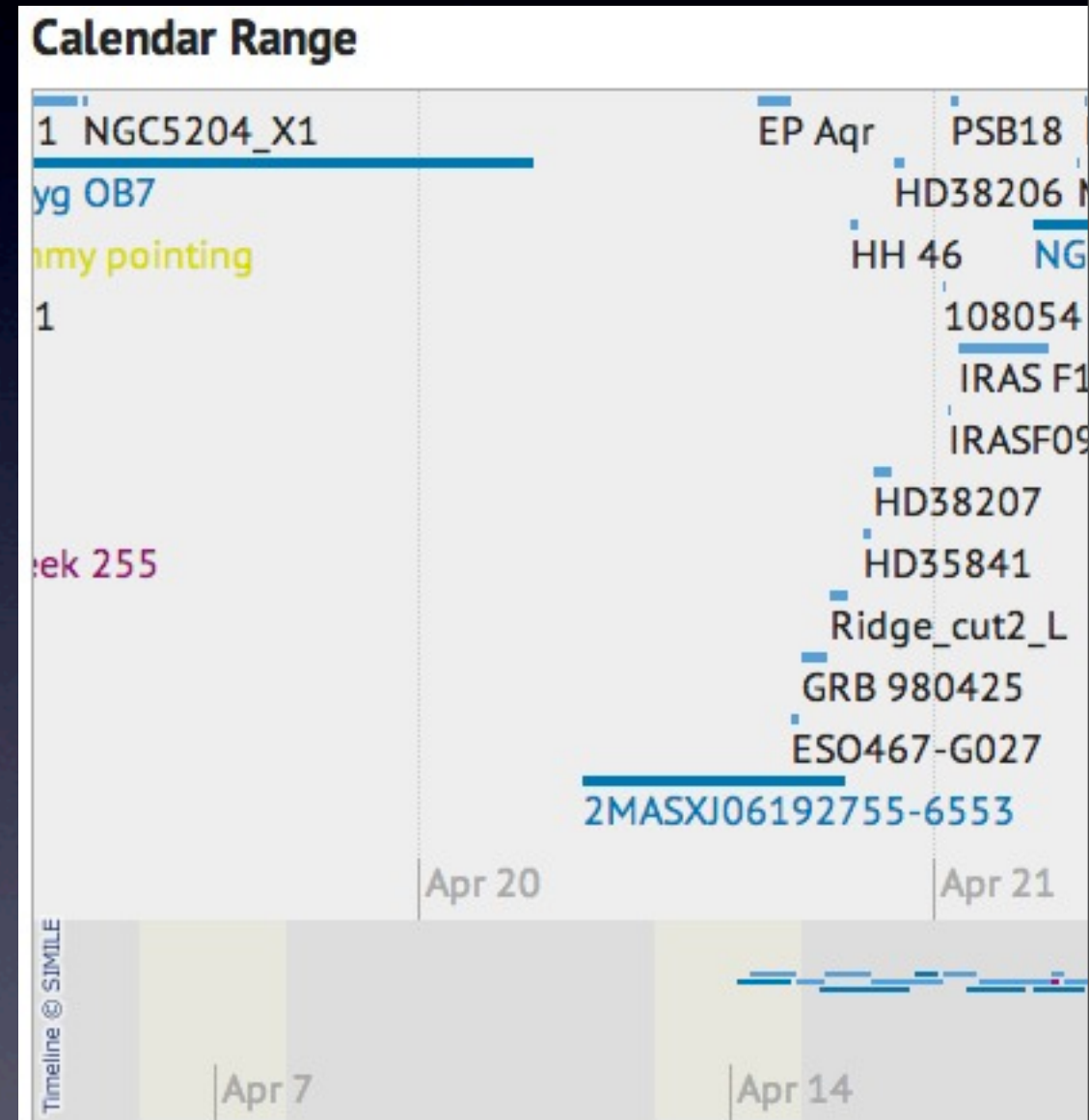
# The Solution: Space is Beautiful!

Satellite Legend: XMM-Newton Fermi AGILE Chandra INTEGRAL NuStar RXTE Suzaku Swift Herschel Spitzer



# Pretty is good, but functional is better

- Integrate a full calendar
- Mouseover dots for the target name
- Mouse position gives coordinates
- Filter on satellites, date and target IDs
- Export as text (scientists love plain text)

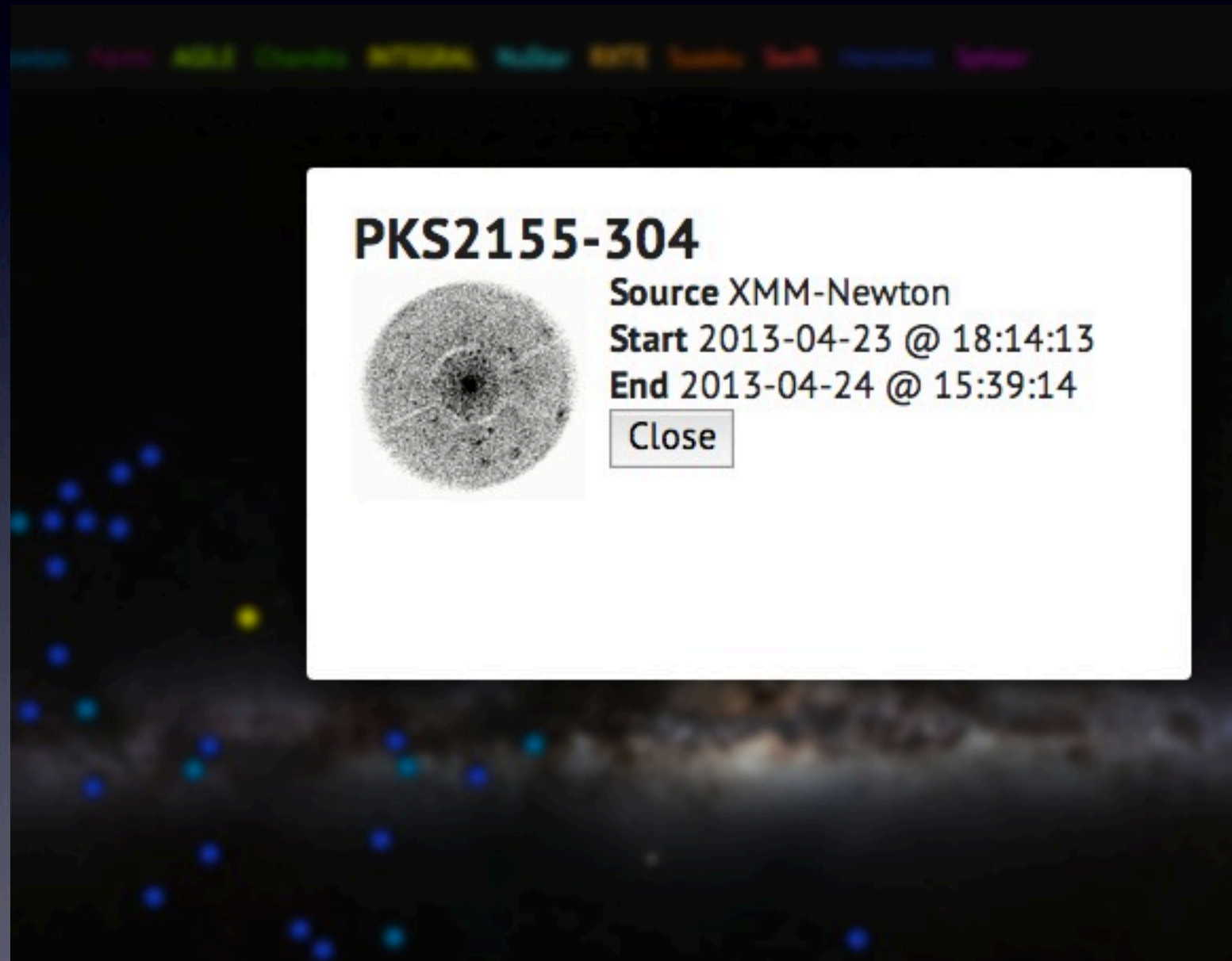




# Modal Info

Images from the NASA  
Extragalactic Database

click through for all the  
source information!



<http://spacecalnyc.com/> @spacecalnyc

# Telescopes on Twitter!



**NASA Space Cal NYC**  
@spacecalnyc  
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### Tweets

 **NASA Space Cal NYC** @spacecalnyc 7m  
The Swift satellite is now targetting saa-cold-111-04  
[spacecalnyc.com](http://spacecalnyc.com) #myspacecal @SpaceApps  
Expand

 **NASA Space Cal NYC** @spacecalnyc 28m  
The Hershel satellite is now targetting EP Aqr [spacecalnyc.com](http://spacecalnyc.com)  
#myspacecal @SpaceApps  
Expand

 **NASA Space Cal NYC** @spacecalnyc 1h  
The INTEGRAL satellite is now targetting Mkn 421(TOO)  
[spacecalnyc.com](http://spacecalnyc.com) #myspacecal @SpaceApps  
Expand

<http://spacecalnyc.com/> @spacecalnyc