Mars Rendezvous

COMET C/2013 A1 (SIDING SPRING)

Presentation as at 18th August 2014

Basics

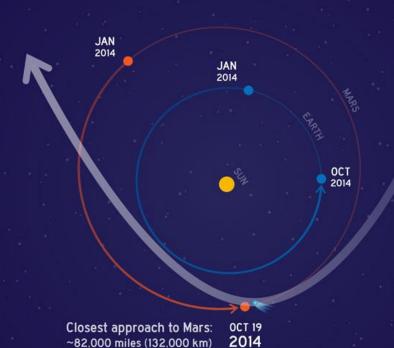
- Comet C/2013 A1 Siding Spring will approach very close to Mars on October 19/20 2014.
- How close? 138,000km!
- Closer than any comet is known to have come to Earth.

About the Rendezvous

- NASA is taking precautions to move spacecraft orbiting Mars out of harms way.
- It is not known what the impact on the comet will be, or hence if there would be a definite risk to spacecraft orbiting Mars.
- Now until 19th October is important for observing the comet to characterise it's behaviour and improve predictions.

Comet Siding Spring (C/2013 A1) is racing toward Mars for a close encounter on October 19, 2014.

JAN 3 Comet discovered at 2013 Australia's Siding Spring Observatory

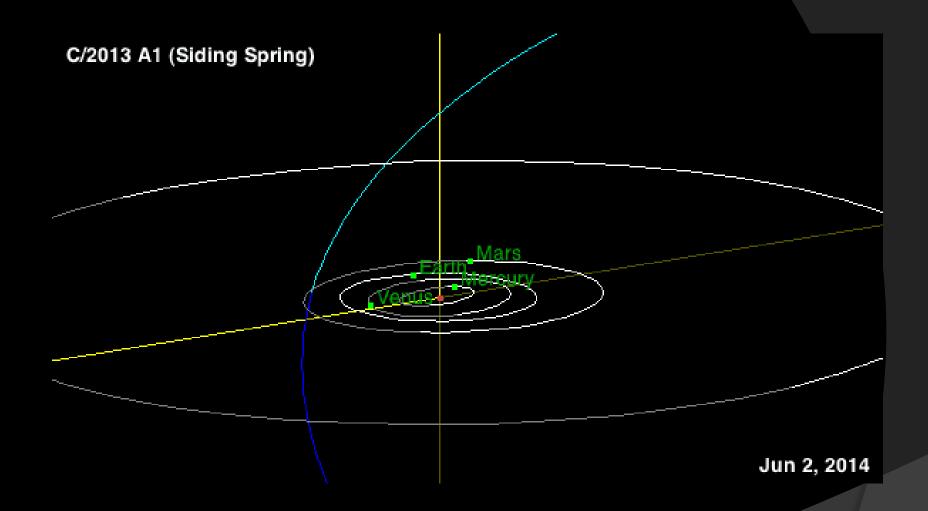


- Updated as of July 10, 2014.

- Planetary orbits drawn to scale; object icons not to scale.



JAN 2014











Date of Observation UT: 2014-08-15 Time of Observation UT: 16:11 Location of Observation: Perth, Western Australia (-31o54'S, 116o09'E) Camera: SBIG ST8-XME (bin 1x1) Filter: Red Astronomik Type II (not Type IIc) Plate Scale: 0.84 arc sec/pixel Position Angle: 0 degrees 26 minutes from North Axes: North-up, East-left



Date of Observation UT: 2014-08-15 Time of Observation UT: 16:11 Observer Name: Roger Groom Location of Observation: Perth, Western Australia (-31o54'S, 116o09'E) Camera: SBIG ST8-XME (bin 1x1) Filter: Red Astronomik Type II (not Type IIc) Exposure Time: 10 x 300 sec (median stacked) Plate Scale: 0.84 arc sec/pixel Position Angle: 0 degrees 26 minutes from North Axes: North-up, East-left

More photo's...

www.RogerGroom.com

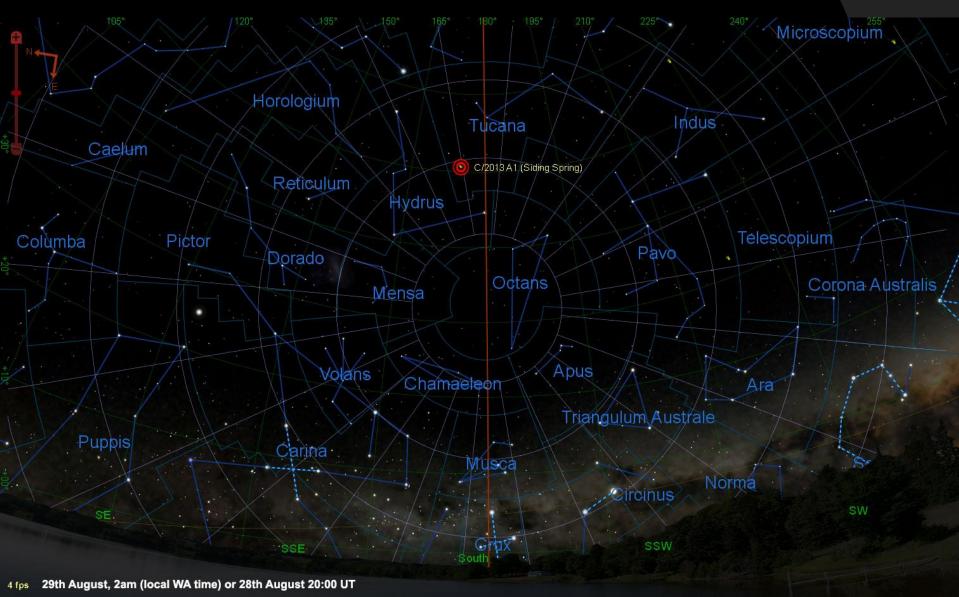
Specifically:

 http://rogergroom.com/astrophotography/cometphotography/photographs-of-comet-c2013a1-siding-spring/

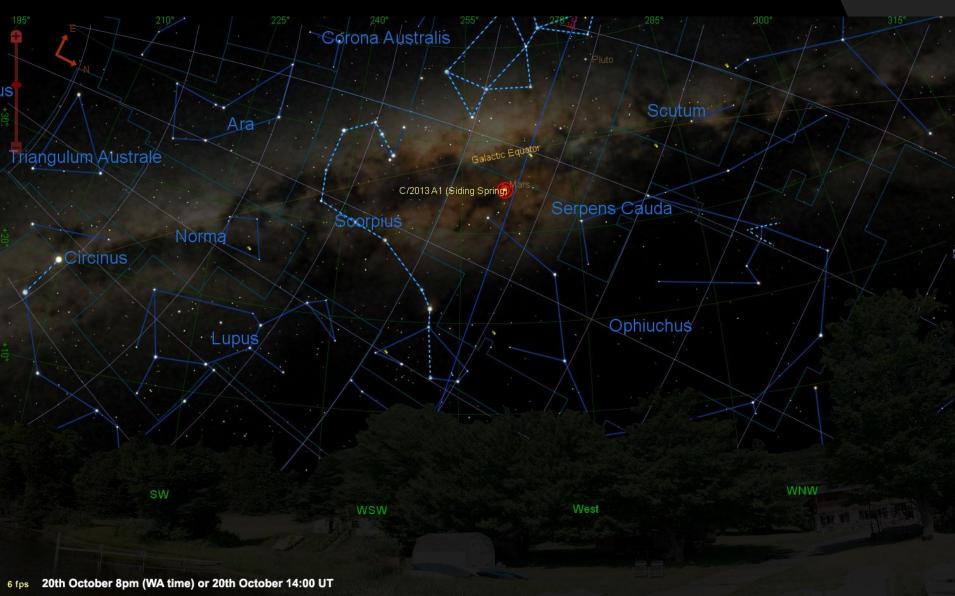
Public Interest

- The media is likely to pick up on this in a big way.
- It will brighten to about magnitude 8, which is still fainter than naked eye visible.
- It is a great opportunity for amateurs to observe a comet and watch whatever interesting developments occur.

Where in the sky is it?



Where in the sky is it?



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Notable Events

- August 29th & 30th LMC & 47 Tucanae
 - Best viewed @ 3am!
- September
 - Brightens gradually and moves more northwest, moving from circumpolar in the south to a more western sky object.
- October 19th − 20th
 - Closest Mars approach
 - It will be visible in the western sky after sunset.
- November
 - Sets earlier and earlier in the western sky until viewing will become difficult.

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