

Ten Years and Three Billion Miles...

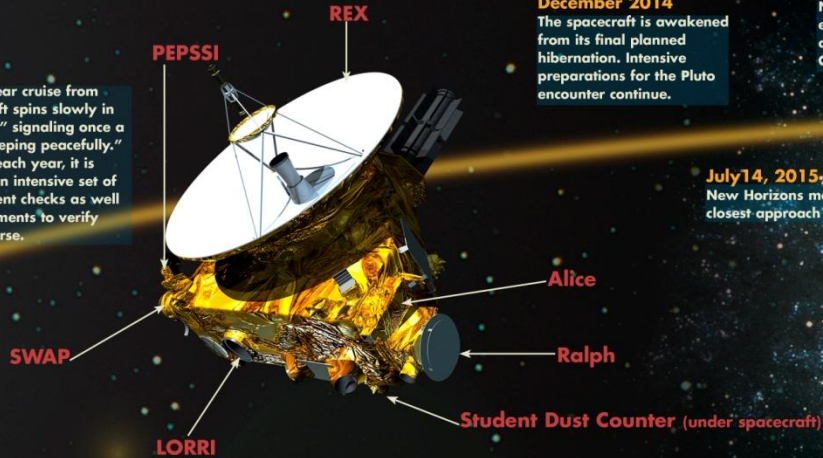


January 19, 2006:
New Horizons spacecraft launches from Cape Canaveral, Florida.



February 28, 2007:
Spacecraft flies by Jupiter for a gravity assist that saves three years of flight time. The team conducts significant science in preparation for the Pluto encounter.

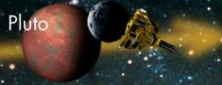
2007-2014
For most of the eight-year cruise from Jupiter to Pluto, the craft spins slowly in a state of "hibernation," signaling once a week to assure it's "sleeping peacefully." But for about 50 days each year, it is awakened to conduct an intensive set of spacecraft and instrument checks as well as navigation measurements to verify the spacecraft is on course.



December 2014
The spacecraft is awakened from its final planned hibernation. Intensive preparations for the Pluto encounter continue.

July 14, 2015:
New Horizons makes its closest approach to Pluto.

2017-2020
With NASA's approval, New Horizons can explore suitable, recently discovered Kuiper Belt Objects beyond Pluto.



Alice: An ultraviolet imaging spectrometer used primarily to analyze the composition of Pluto's atmosphere.

LORRI: A high-resolution optical telescope and camera that will start monitoring Pluto regularly about 200 days out.

Ralph: A combination optical/infrared instrument that will be used to provide color maps of the surfaces of Pluto and Charon, plus compositional and thermal information on the surfaces.

PEPSSI: Particle detection instrument used to detect molecules and atoms escaping from Pluto's atmosphere.

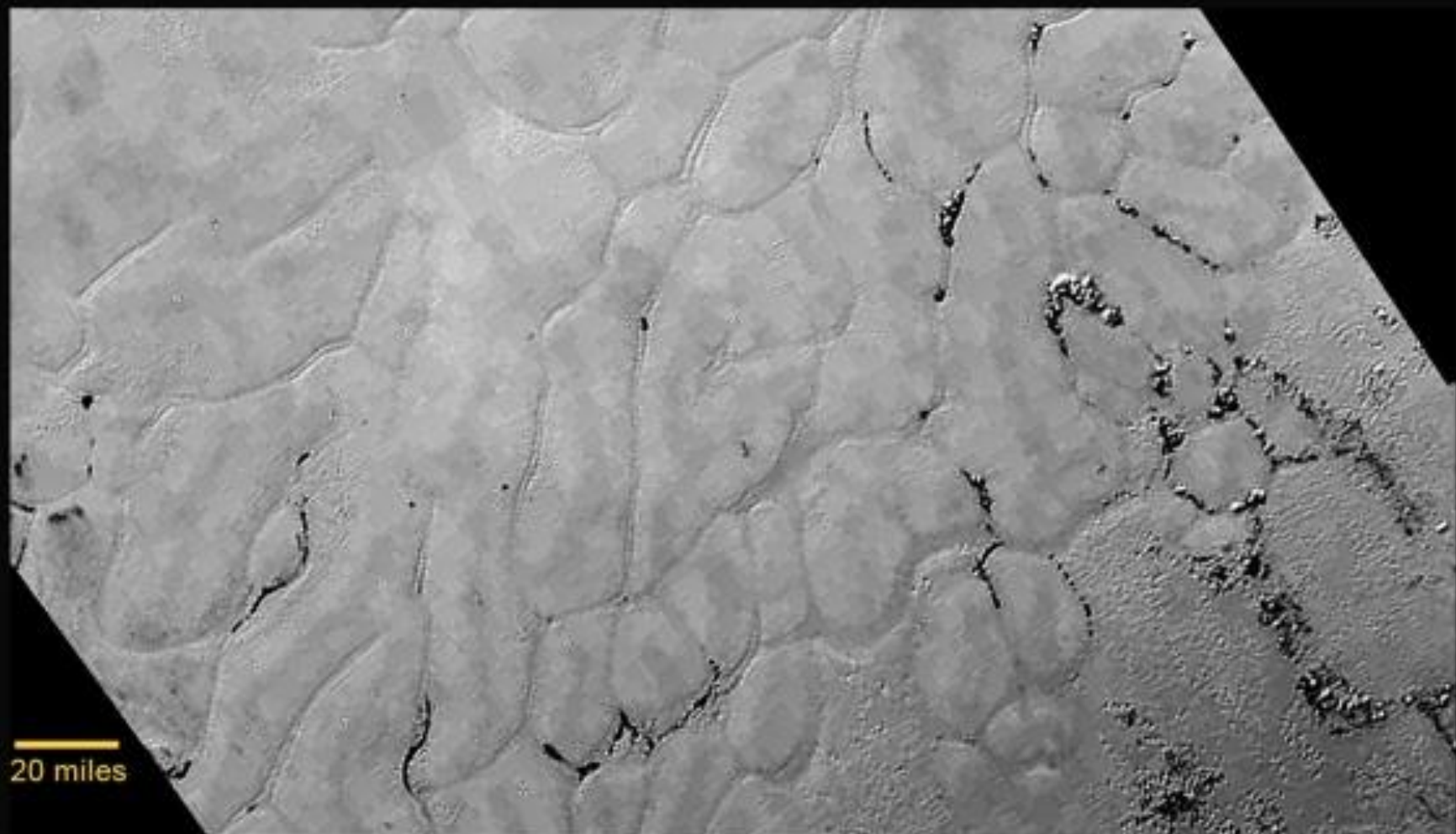
SWAP: Particle instrument used to measure the properties of the solar wind around Pluto.

REX: Radio experiment to study Pluto's atmosphere by observing the bending of radio waves beamed up to the craft by giant antennas on Earth.

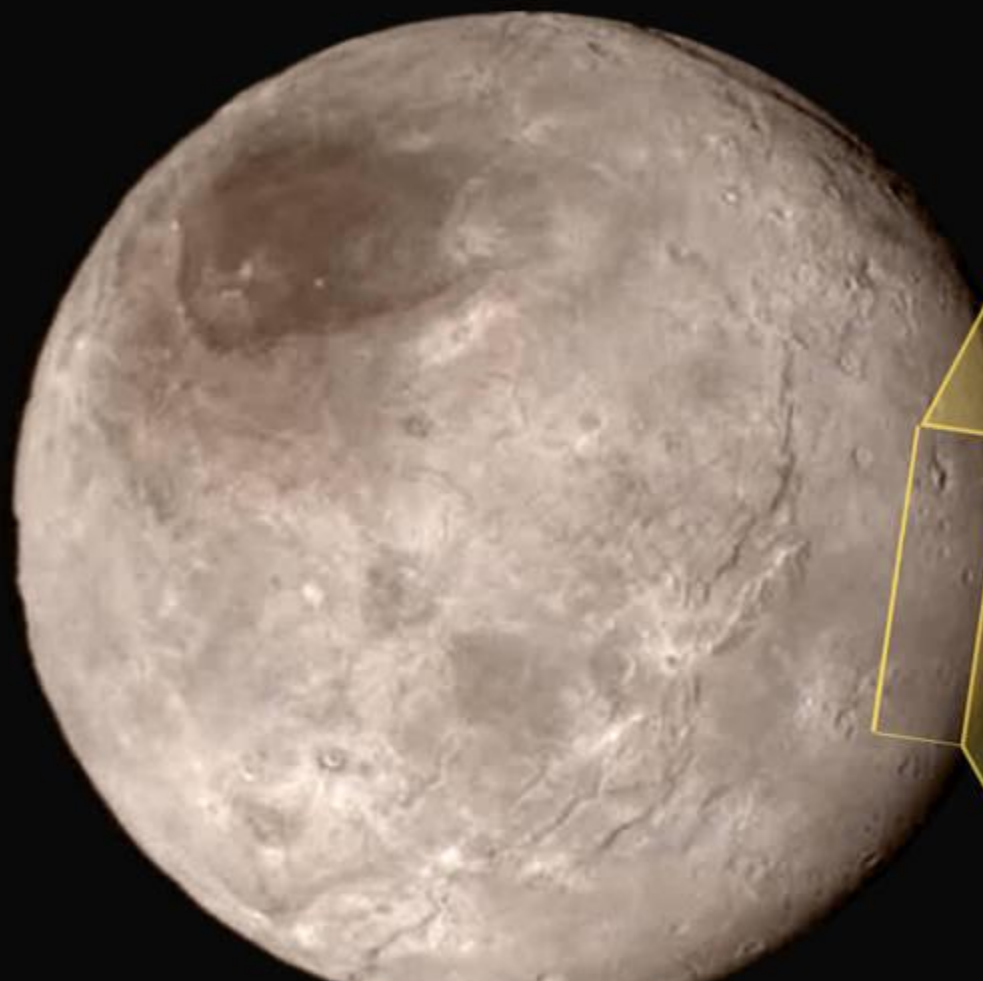
Student Dust Counter: Devised by undergrads at University of Colorado; will count dust particle impacts from Earth all the way into the Kuiper Belt







20 miles



Pluto



2011 June 23
Occulted Star





How Nature Speaks



How Nature Speaks

- **Continuously**



How Nature Speaks

- **Continuously**
- **Profusely**



How Nature Speaks

- **Continuously**
- **Profusely**
- **Universally**



mother nature...



mother nature...
Who's your daddy?

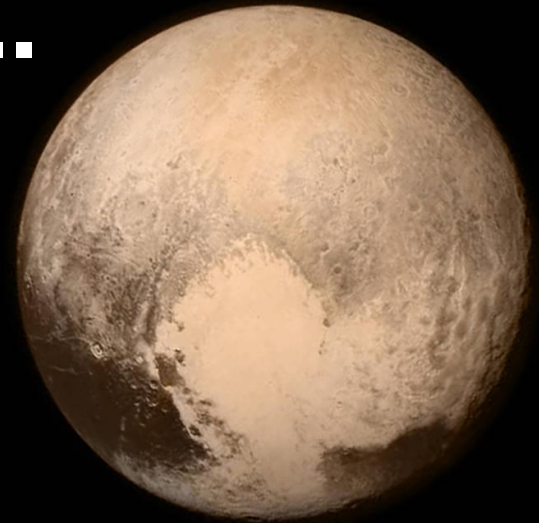


For since the creation of the world God's invisible qualities—his eternal power and divine nature—have been clearly seen, being understood from what has been made, so that people are without excuse. For although they knew God, they neither glorified him as God nor gave thanks to him, but their thinking became futile and their foolish hearts were darkened. Although they claimed to be wise, they became fools.

Romans 1



**Psalm 19 takes an
interesting direction...**



God's Word...

- Revives the Soul
- Makes wise the Simple
- Makes the heart rejoice
- Enlightens the eyes
- Endures forever
- Is altogether righteous









I'M
SIGNIFICANT!



SCREAMED THE
DUST SPECK.





The Son is the image of the invisible God, the firstborn over all creation. For in him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities; all things have been created through him and for him.



For God was pleased to have all his fullness dwell in him, and through him to reconcile to himself all things, whether things on earth or things in heaven, by making peace through his blood, shed on the cross. Once you were alienated from God and were enemies in your minds because of your evil behavior. But now he has reconciled you by Christ's physical body through death to present you holy in his sight, without blemish and free from accusation.

Colossians 1

