

Glen Fountain

Overview of the Mission



New Horizons – A Journey to New Frontiers



Mission Overview
Glen Fountain
Project Manager



New Horizons Launch Options

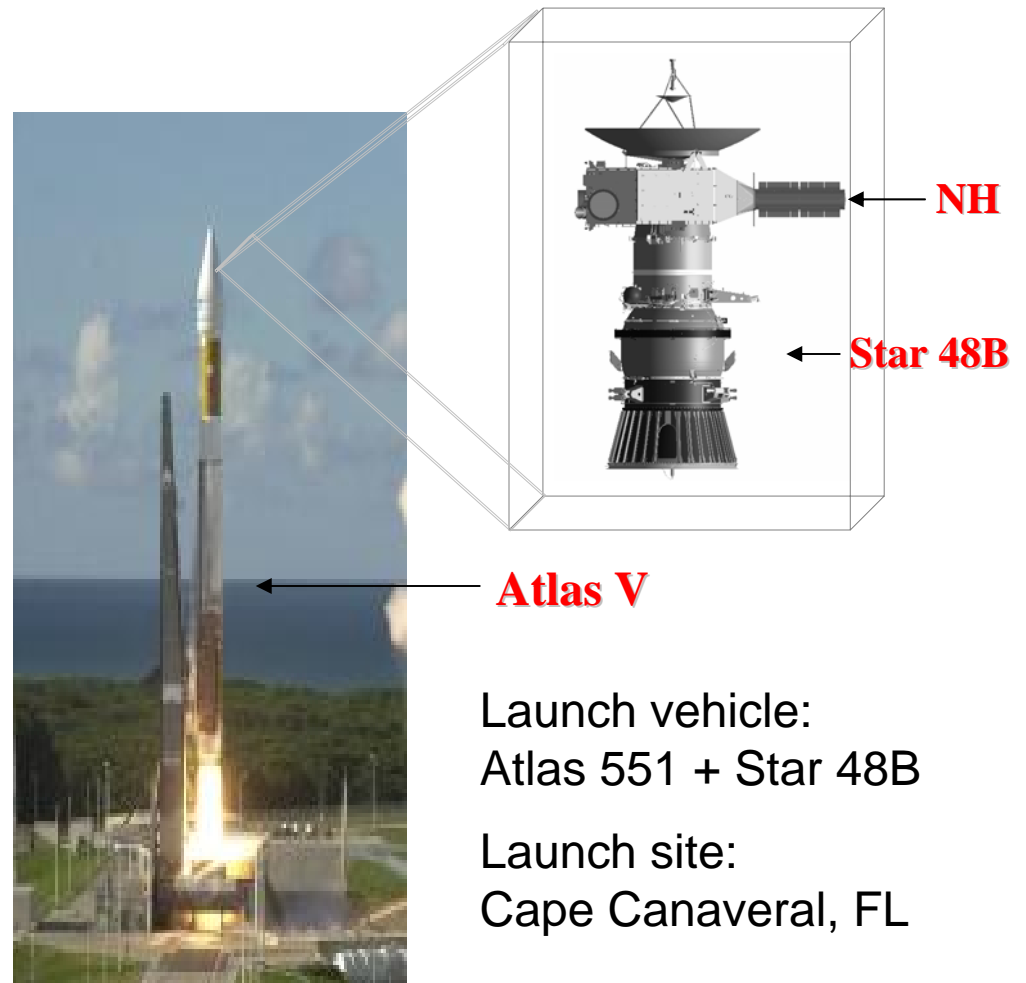


- **2006 Planned Baseline**

- **Launch date:**
Jan 11- Feb 14, 2006
- **Launch period: 35 days**
- **Max C_3 : 164 km²/s²**
- **S/C launch mass: 481 kg**
- **Pluto arrival: 2015-2020**

- **2007 Planned Backup**

- **Launch date: Feb 2-15, 2007**
- **Launch period: 14 days**
- **Max C_3 : 166.2 km²/s²**
- **S/C launch mass: 461 kg**
- **Pluto arrival: 2019-2020**

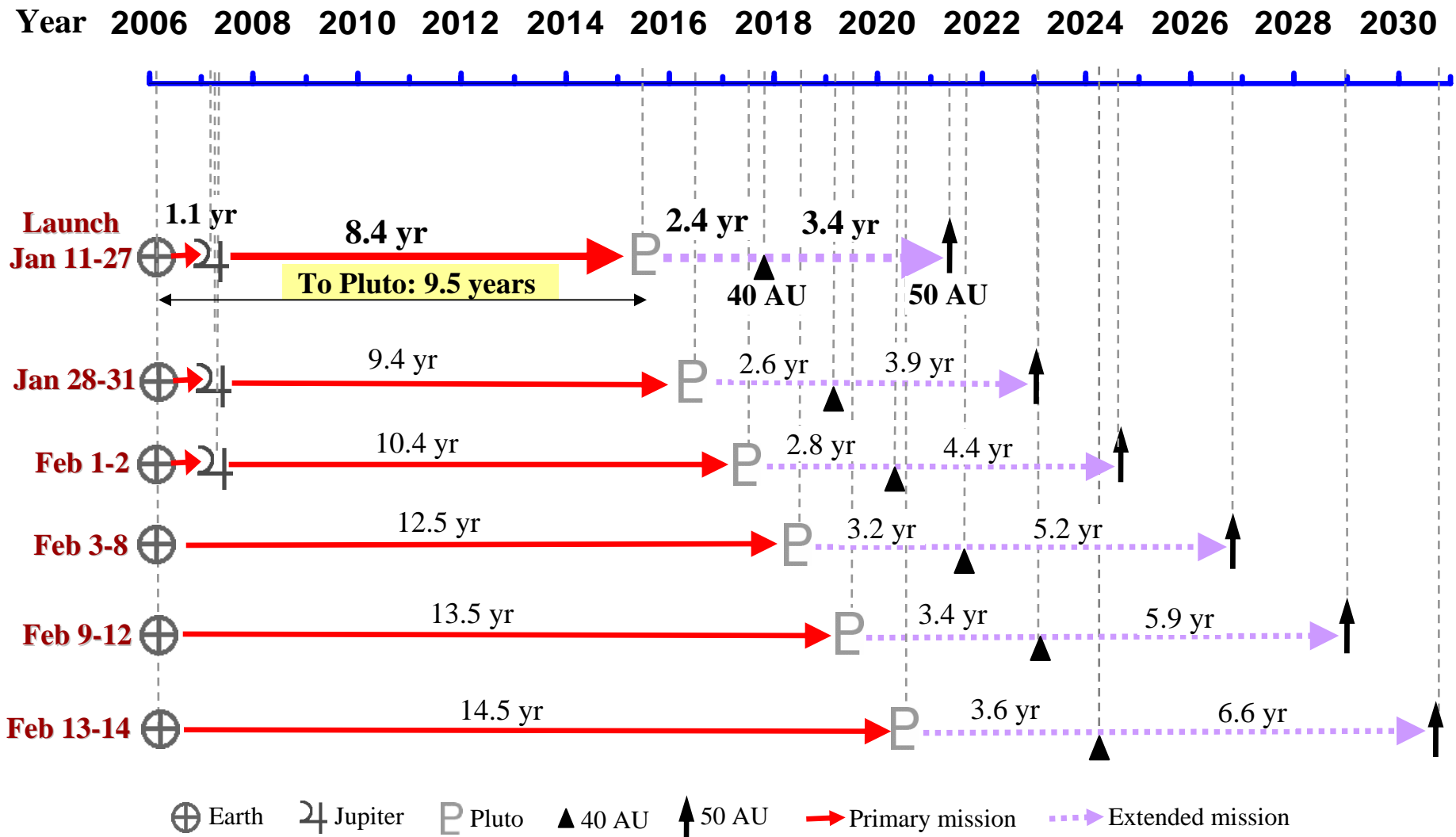


Launch vehicle:
Atlas 551 + Star 48B

Launch site:
Cape Canaveral, FL

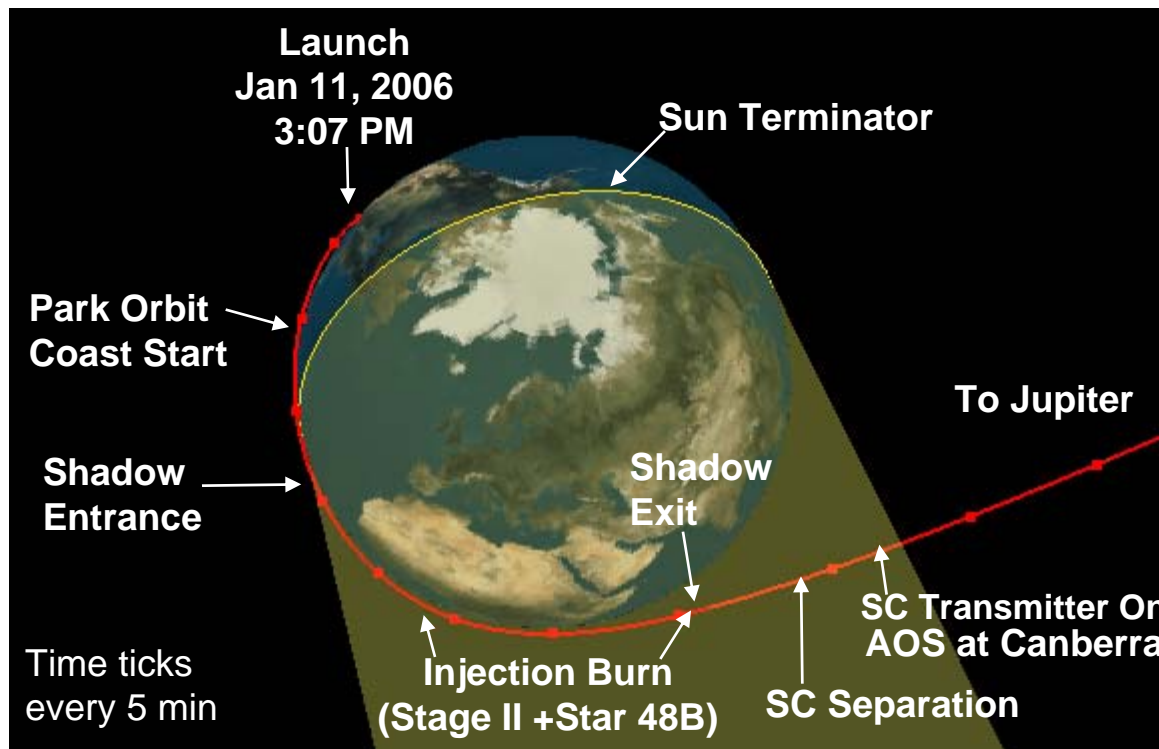
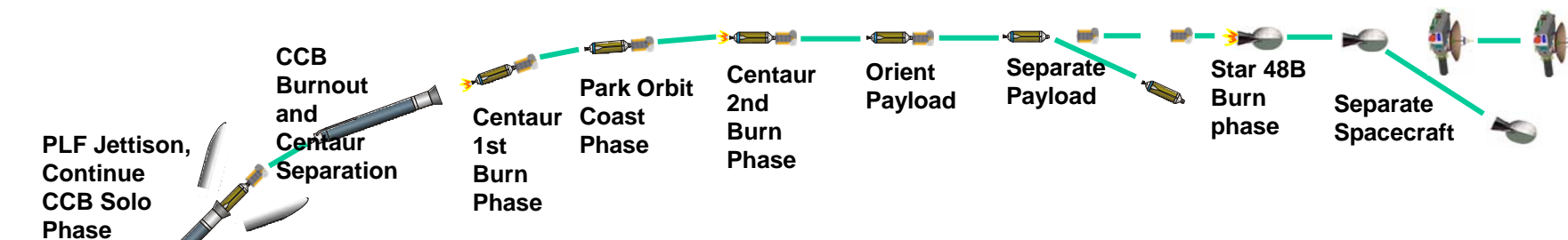


New Horizons Mission Timeline (2006 Baseline Plan)



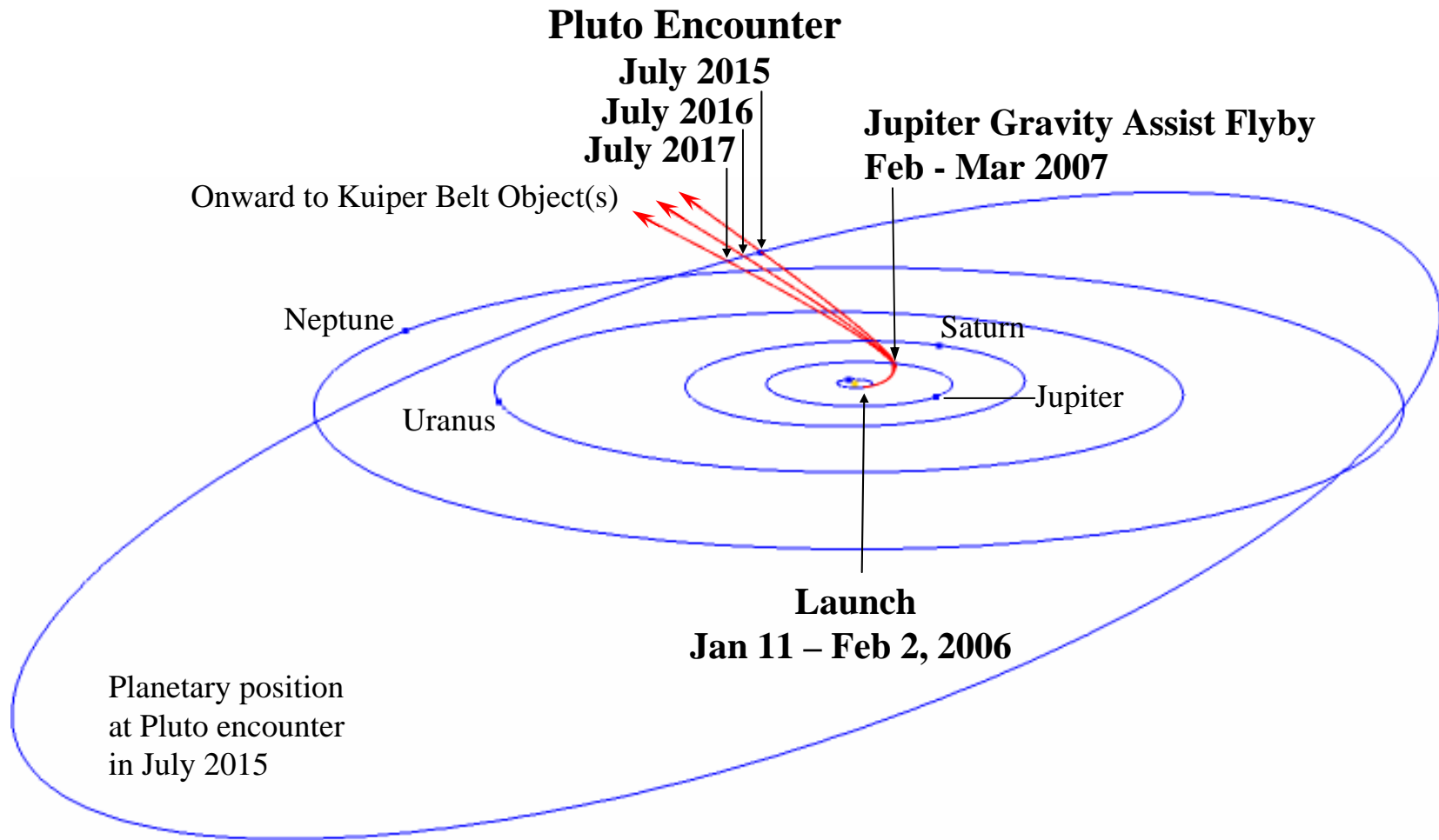


Launch Sequence & Trajectory (Jan 11)



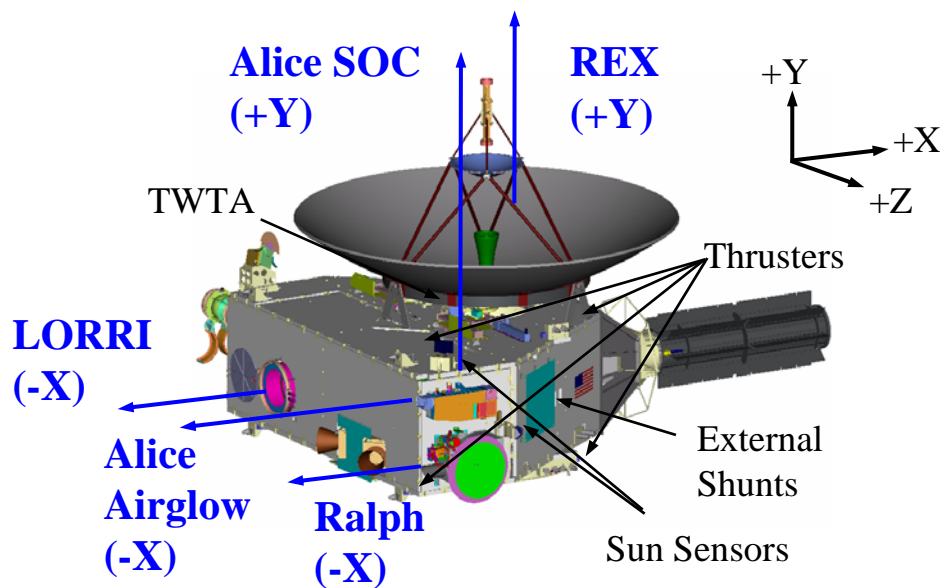


Jupiter Gravity Assist Trajectory



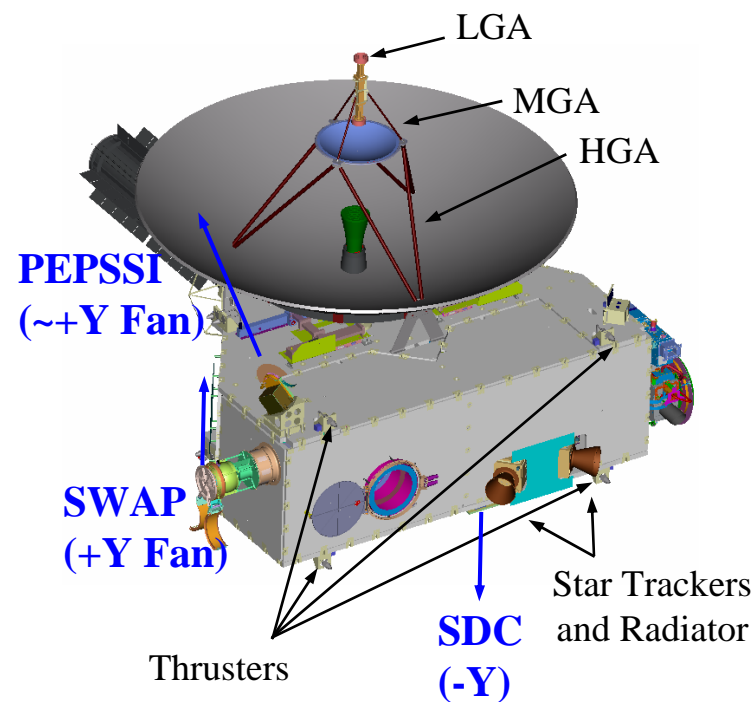


Baseline Spacecraft



Legend

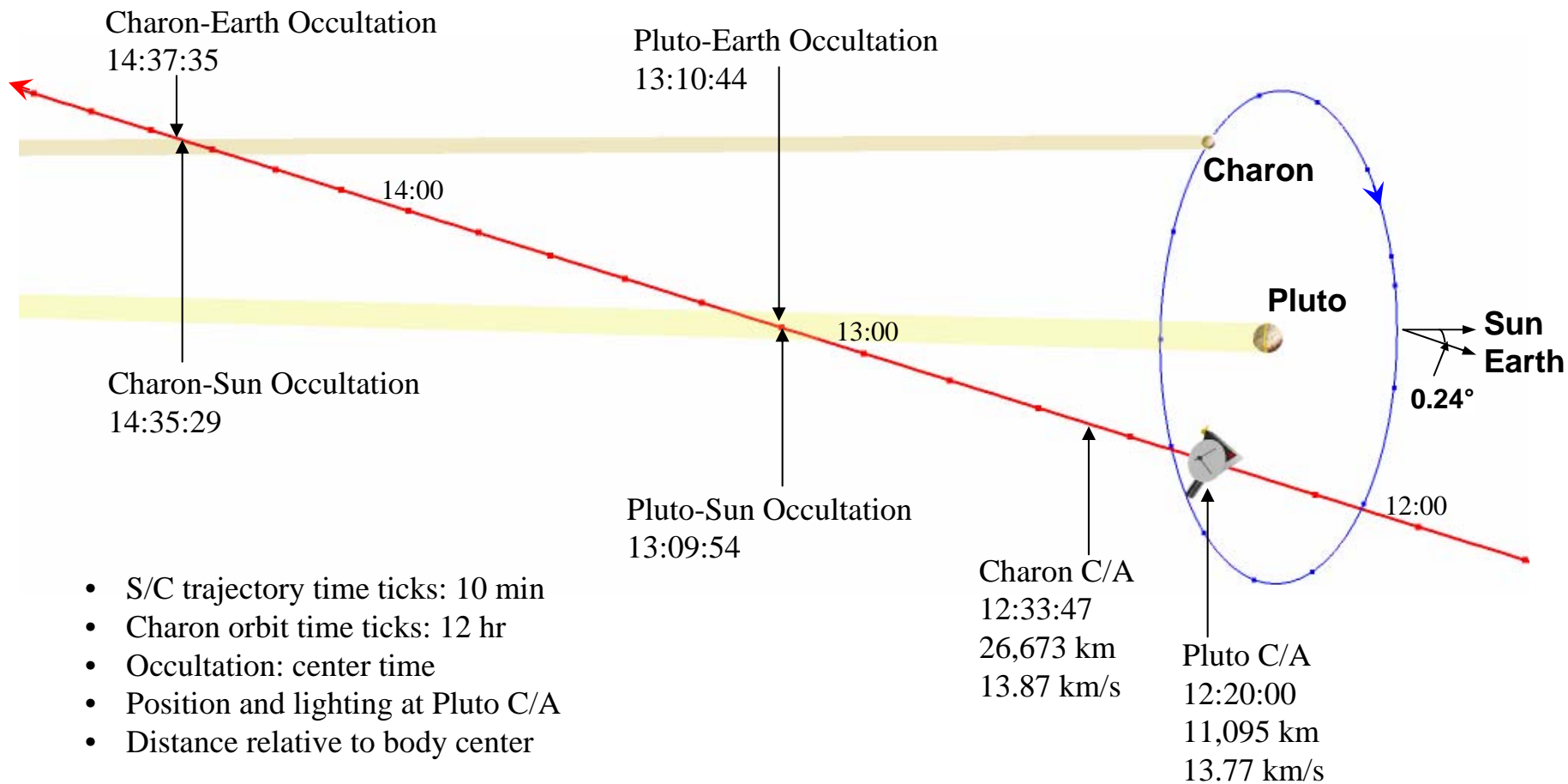
Instruments
(View Directions)
Spacecraft Components



1 meter



Pluto-Charon Encounter (July 14, 2015)





Web site - <http://pluto.jhuapl.edu>



NEW HORIZONS

NASA's Pluto-Kuiper Belt Mission



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Pluto

TIMELINE

- JANUARY 11, 2006**
LAUNCH WINDOW OPENS
- FEBRUARY 2007**
JUPITER GRAVITY ASSIST
- MARCH 2007-JUNE 2015**
INTERPLANETARY CRUISE
- JULY 2015**
PLUTO-CHARON ENCOUNTER
- 2016-2020**
KUIPER BELT OBJECT ENCOUNTERS

COUNTDOWN

DAYS	HRS	MINS	SECS
309	12	50	12

Opening of primary launch window

FEATURED IMAGE

+ LATEST NEWS

March 2, 2005
The PI's Perspective

Calling New Horizons the "first mission to the last planet" might not be technically correct, but it does capture the pioneering spirit of a team planning to explore a frontier world for the first time. See what's happening with New Horizons in this month's update from Principal Investigator Alan Stern.

[+ Read more](#)



February 16, 2005
Happy Anniversary Pluto!

Pluto still fascinates us, 75 years after American astronomer Clyde Tombaugh spotted the tiny world in a series of telescope images. [Click here](#) to read more about Pluto's remarkable discovery.



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+ TO PLUTO AND BEYOND

New Horizons is the first mission to the last planet - the initial reconnaissance of Pluto-Charon and the Kuiper Belt - sent out to explore the mysterious worlds at the edge of our solar system.

+ SEND YOUR NAME TO PLUTO

Celebrate 75 years of Pluto with a special E-Card - and sign up to send your name to Pluto!

+ P-K BITS

Pluto is an ice dwarf - a "new" type of planet common to the deep outer solar system

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New Horizons

