# The Cassini Mission to Saturn



Mark R. Showalter SETI Institute

July 26, 2007

# The Cassini Mission to Saturn and its Rings



Mark R. Showalter SETI Institute

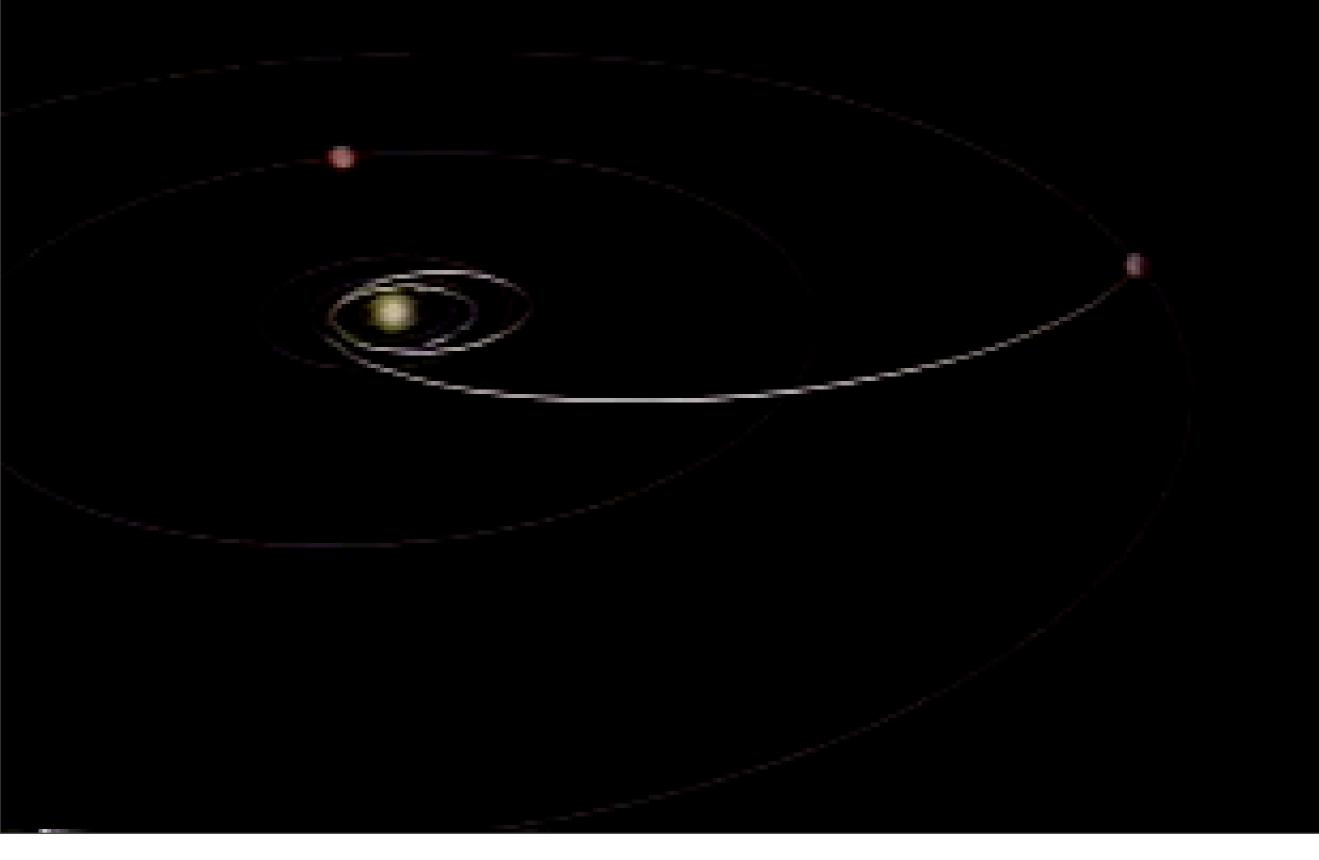
July 26, 2007





#### October 15, 1997

#### Cassini's Journey to Saturn

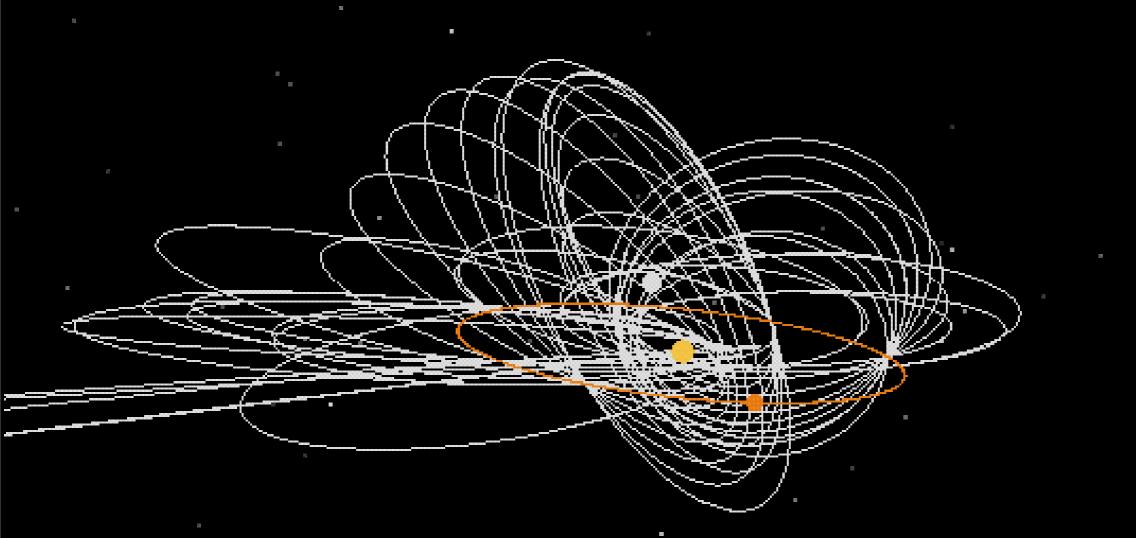


#### Approach View of Saturn



#### Rockets Fire to Slow Cassini Down

#### Cassini's Tour of the Saturn System



#### 2007/11/19-20:42:00

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#### Moons of Saturn

Janus



#### Rhea



Mimas

#### Cassini Encounters Dione

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### Cassini Encounters Dione

#### Views of Titan

#### IR wavelengths

#### Visual wavelengths



4.

Radar Image

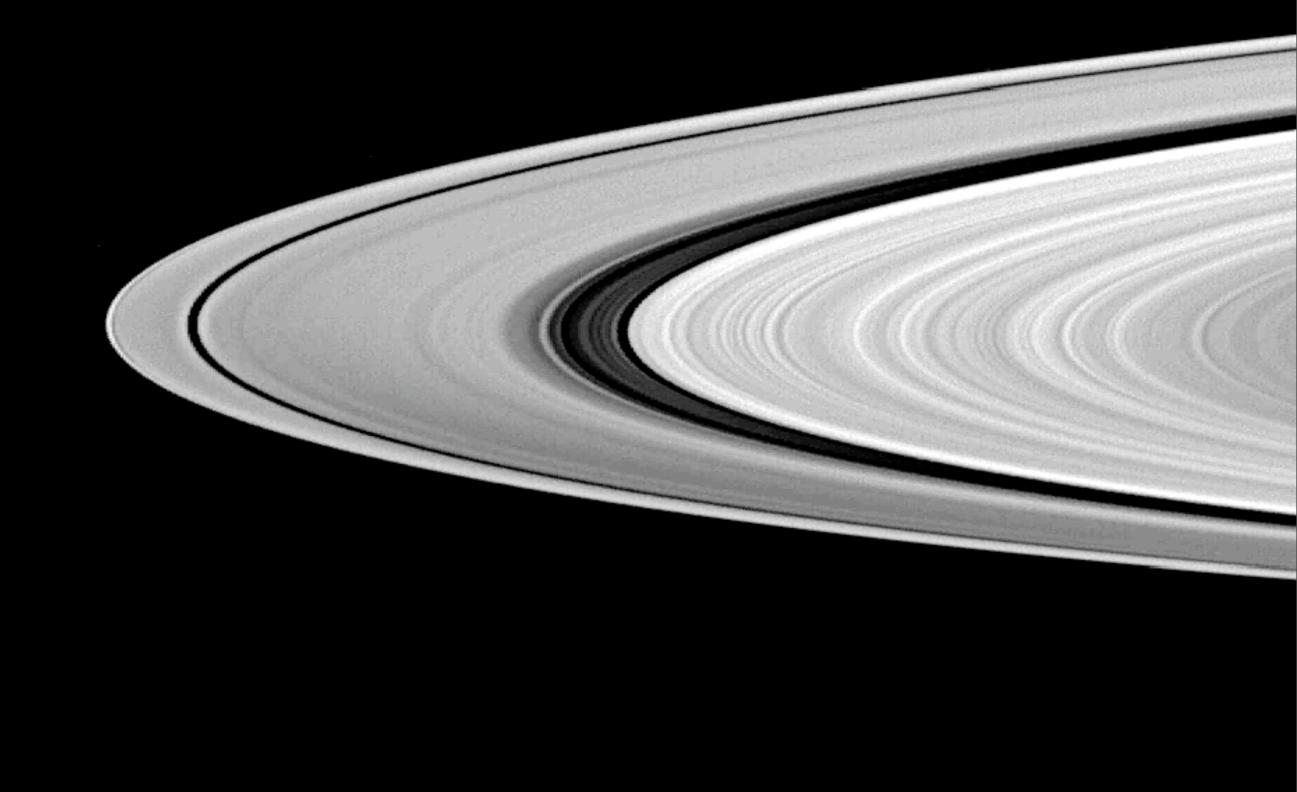
#### Discovery of a Tiny Moon

⊡Helene

Mimas

Methone

#### Cassini Crosses the Ring Plane

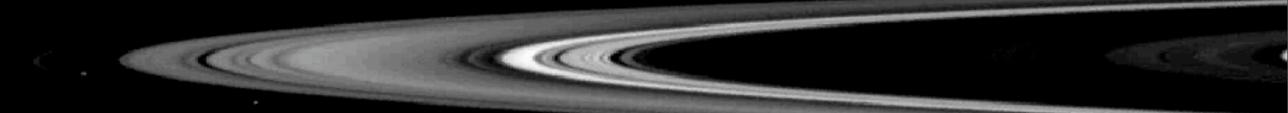


#### Cassini Crosses the Ring Plane

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#### Cassini Crosses the Ring Plane



#### The View from Saturn's Shadow



#### The View from Saturn's Shadow





#### Enceladus in the E Ring



#### Ice "Geysers" from Enceladus

#### Saturn's Faint G Ring



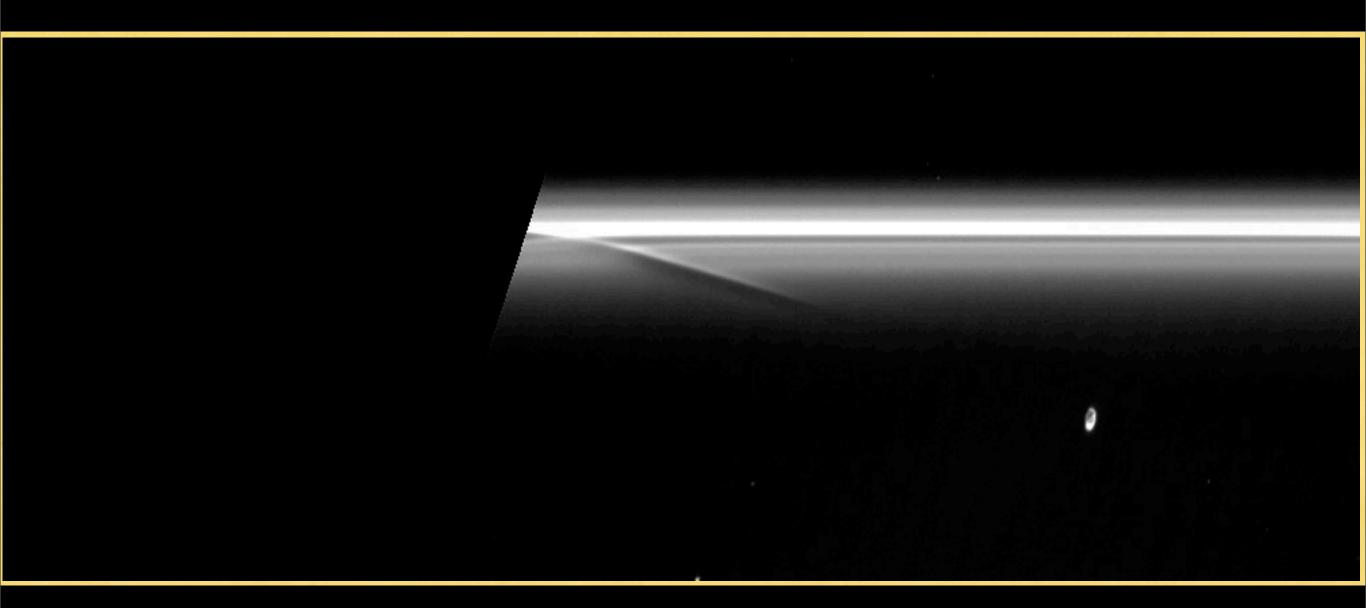
#### Mimas Confines an Arc in the G Ring

#### Saturn's Mysterious F Ring

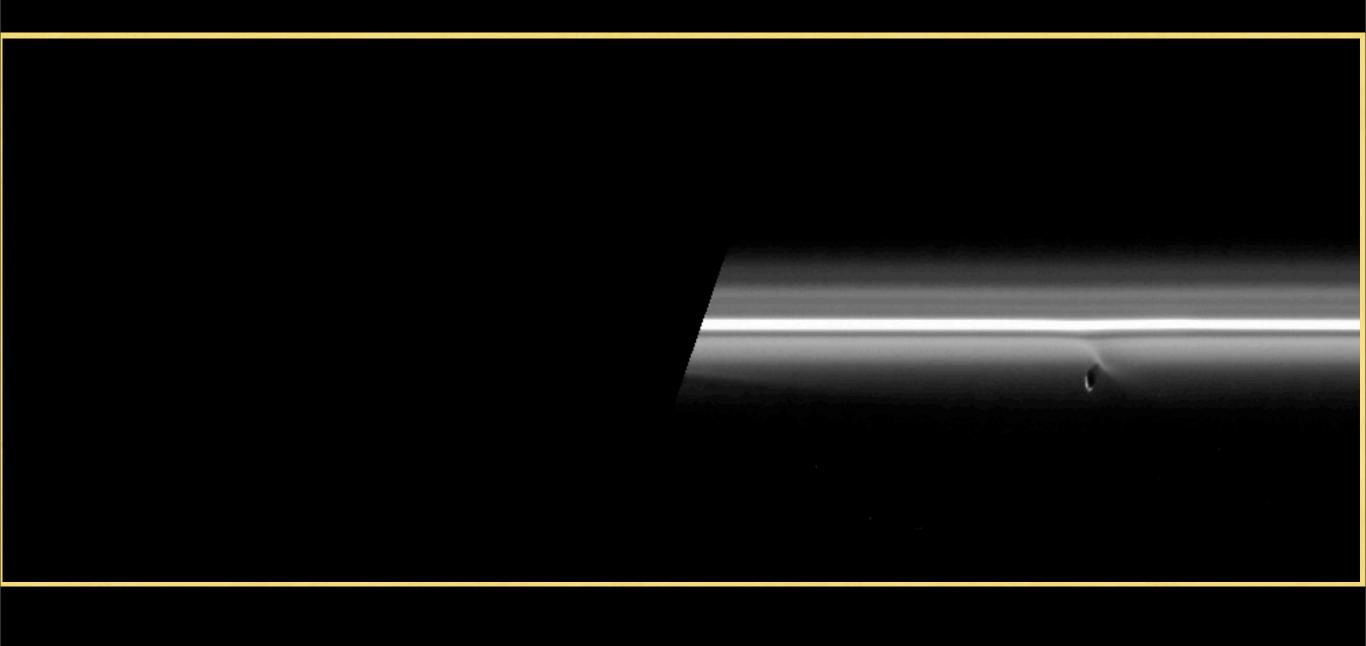


#### F Ring, Prometheus & Pandora

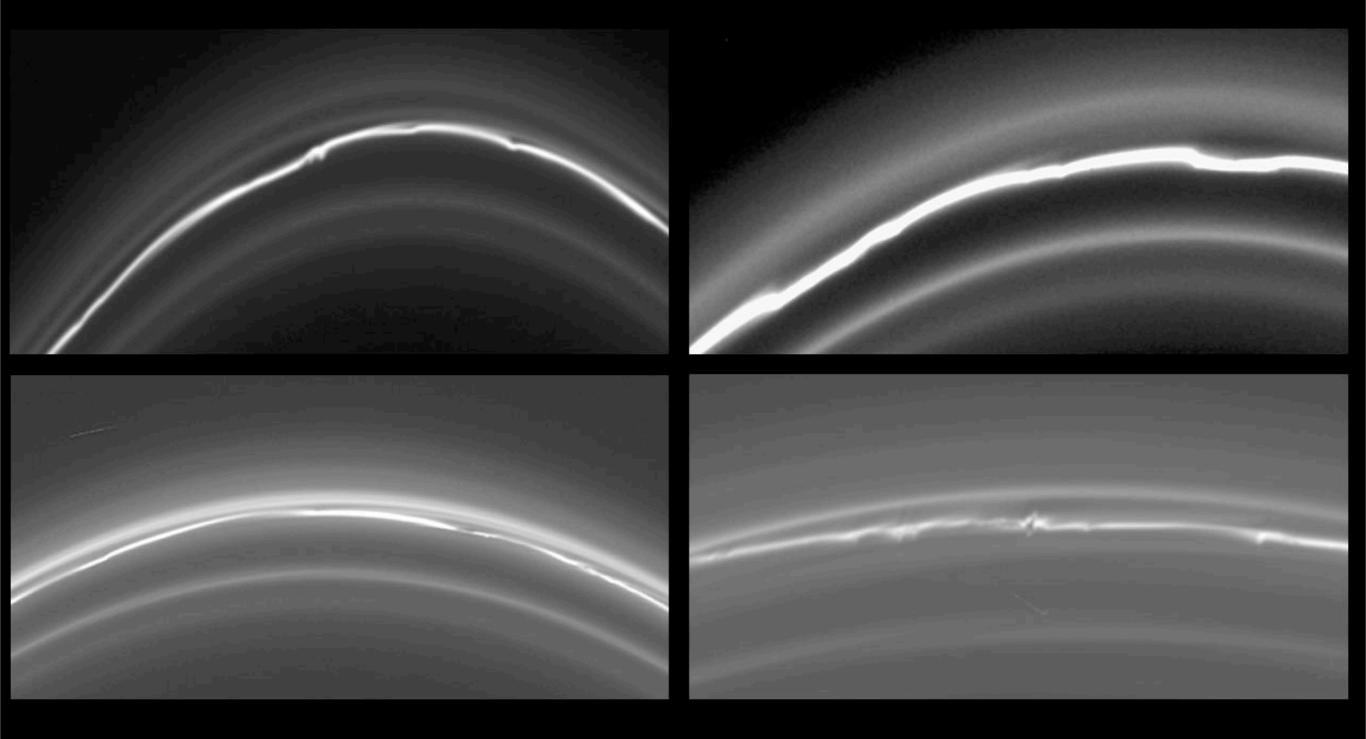
#### Prometheus Enters the F Ring



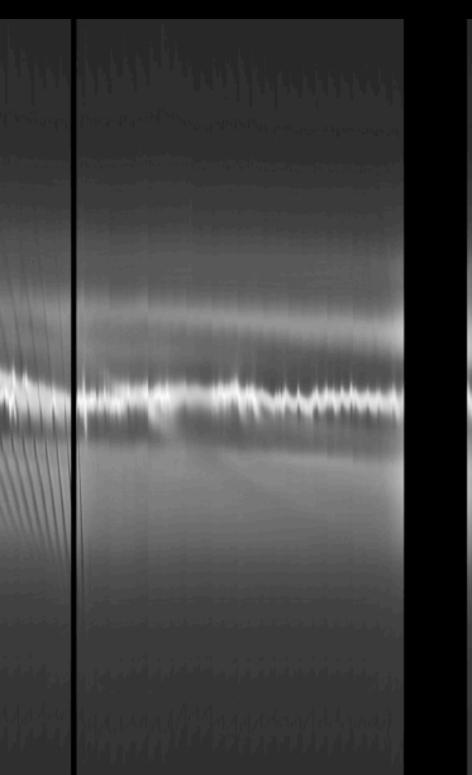
#### Prometheus Enters the F Ring



#### Four Views of the F Ring



#### Impact into the F Ring?



#### 2006-329

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### New Features Appear in the F Ring

#### 2006-357

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#### New Features Appear in the F Ring

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## New Features Appear in the F Ring

2007-005

# New Features Appear in the F Ring

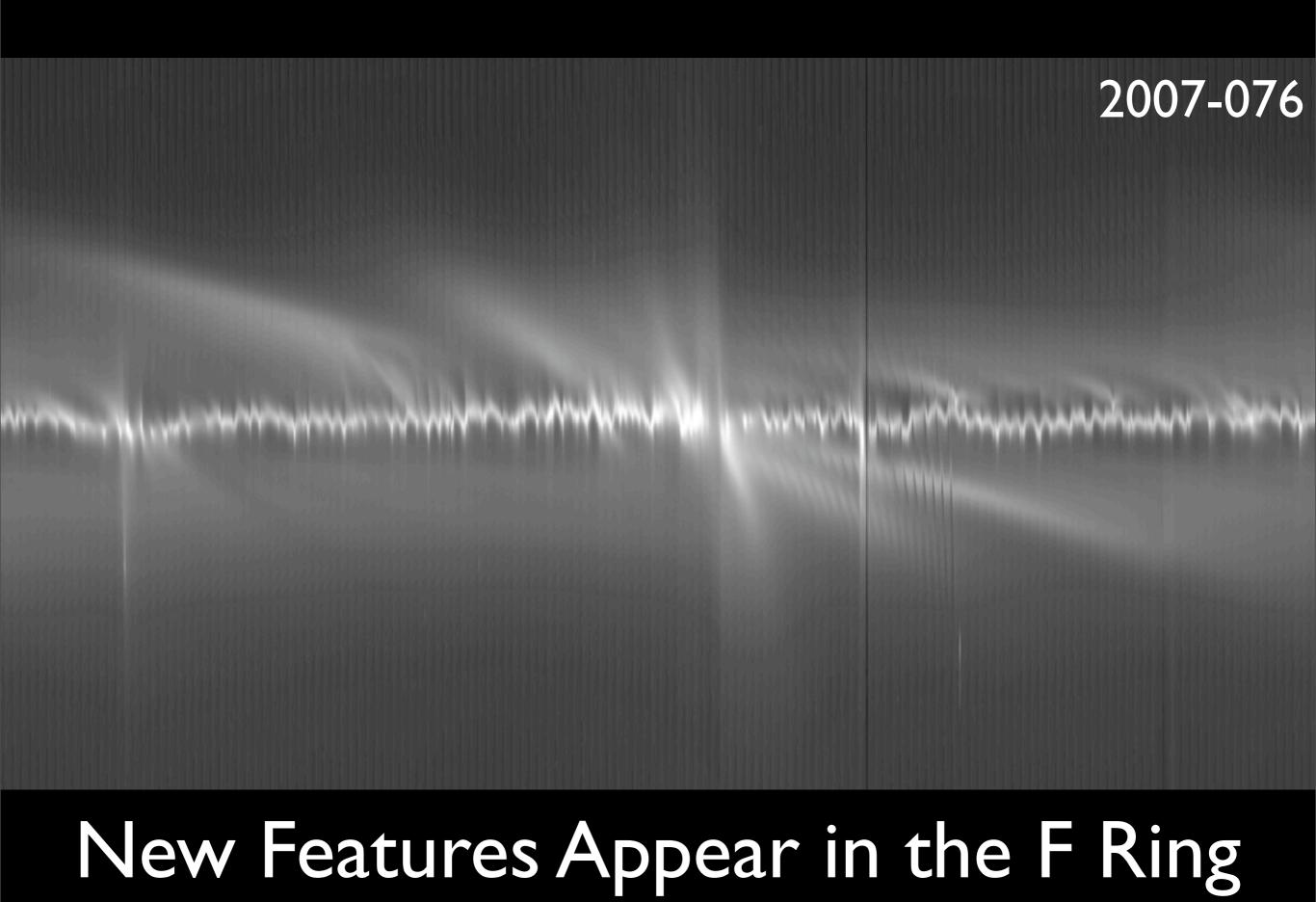
2007-041

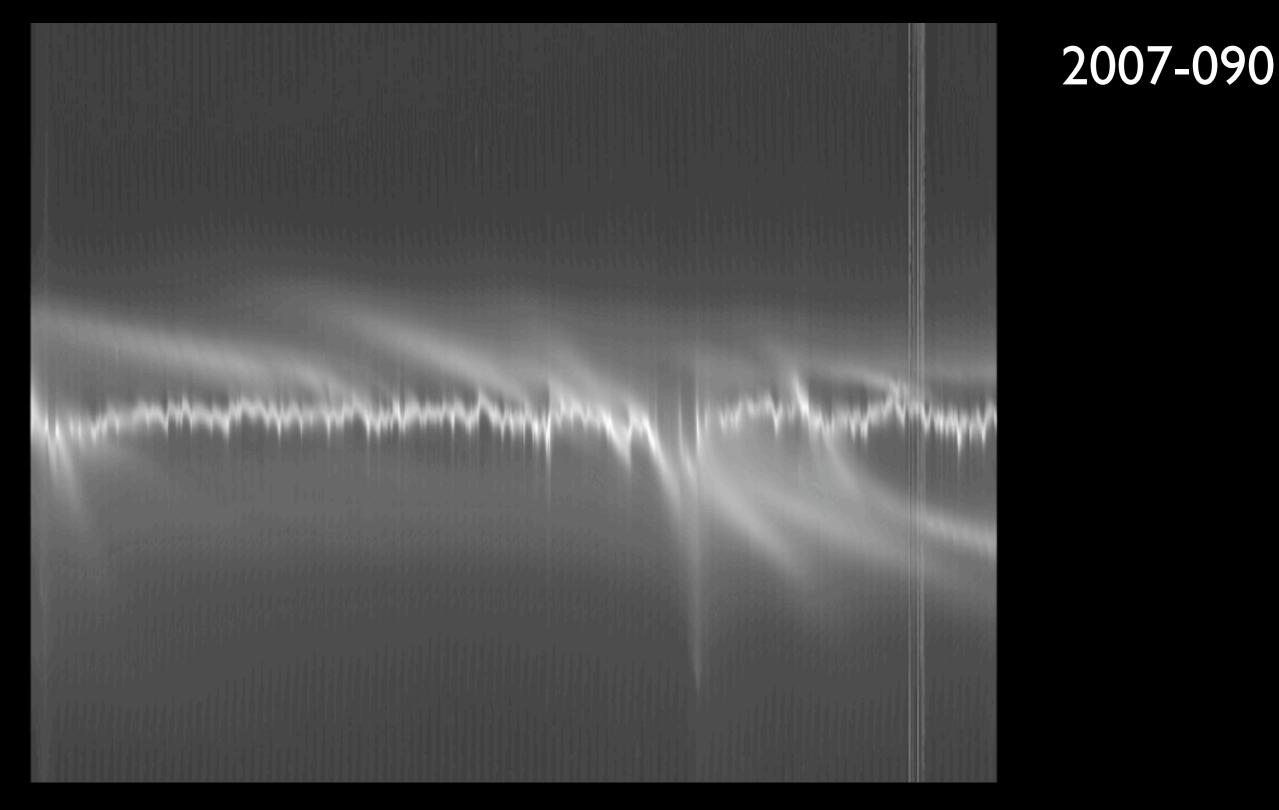
#### 2007-058

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#### New Features Appear in the F Ring

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#### New Features Appear in the F Ring

# 2007-108 added add and the second se New Features Appear in the F Ring

# 2007-125

#### New Features Appear in the F Ring

#### Daphnis Disturbs the Keeler Gap

#### "Spokes" and Fine Structure in Ring B

#### What is This?



#### Home!

# More Information:

saturn.jpl.nasa.gov

www.esa.int/SPECIALS/Cassini-Huygens