Thursday, March 19, 2015

POSTER SESSION II: OUTER PLANETARY BODIES: PLUMES AND VENTS
6:00 p.m. Town Center Exhibit Area

POSTER LOCATION #244


Enceladus’ South Pole: Conduction, Radiation, and Conduits [3018]
Preliminary results of modeling a purely conductive and radiative model of a liquid-water filled vent and subsurface reservoir on Enceladus.

POSTER LOCATION #245

Abramov O.  Raggio D.  Schenk P. M.  Spencer J. R.  Abramov O.  Raggio D.  Schenk P. M.  Spencer J. R.

Temperatures of Vents Within Enceladus’ Tiger Stripes [1206]
New thermal models, coupled with observations from the Cassini CIRS and ISS instruments, further constrain tiger stripe vent temperatures and widths.

POSTER LOCATION #246


Properties of the Vapor Release from Enceladus’ Tiger Stripes from Modeling and Cassini INMS Data [2318]
We use Cassini INMS data and numerical modeling to constrain the properties of the plumes of Enceladus.

POSTER LOCATION #247

Dhingra D.  Hedman M. M.  Clark R. N.  Nicolson P. D.  Dhingra D.  Hedman M. M.  Clark R. N.  Nicolson P. D.

Spectral Characterization of Spatially Resolved Water Ice Plumes at Enceladus Using Cassini VIMS Data [1648]
Spatially resolved VIMS observations of Enceladus’ plumes have been analyzed. Spectral differences are hinted among the plumes along individual fractures.

POSTER LOCATION #248

Bouquet A.  Brockwell T. G.  Waite J. H.  Perryman R. S.  Bouquet A.  Brockwell T. G.  Waite J. H.  Perryman R. S.

Evaluating the Quantity of Native H2 in Enceladus’ Plumes [2320]
We assess the quantities of native H2 in Enceladus’ plumes by quantifying and subtracting the artifact H2 (produced by ice grains impact on the antechamber).

POSTER LOCATION #249

Kempf S.  Horanyi M.  Schmidt J.  Southworth B.  Kempf S.  Horanyi M.  Schmidt J.  Southworth B.

How Much Dust Does Enceladus Eject? [1938]
We performed numerical simulations of the Enceladus dust plume to constrain the dust production rate and to verify whether the plume constitutes a dusty plasma.

POSTER LOCATION #250

Southworth B.  Kempf S.  Schmidt J.  Horanyi M.  Southworth B.  Kempf S.  Schmidt J.  Horanyi M.

Modeling Europa’s Dust Plume [2729]
We explore the parameter space of potential dust plumes on Europa, simulating active plumes and the results of spacecraft flybys.

POSTER LOCATION #251

Phillips C. B.

Searching for Plumes and Ongoing Geologic Activity on Europa [2704]
Was Europa plume/Off during Galileo?/Or just hard to see?

POSTER LOCATION #252

Hansen C. J.  Kirk R.  Hansen C. J.  Kirk R.

Triton’s Plumes — Solar-Driven Like Mars or Endogenic Like Enceladus? [2423]
New data and models of seasonal jets in Mars’ polar regions and Enceladus’ geophysical activity motivate re-consideration of the source of Triton’s plumes.