Japan Geoscience Union Meeting 2013

(May 19-24 2013 at Makuhari, Chiba, Japan)

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U07-P07

Room:Convention Hall

Time:May 19 18:15-19:30

Scientific observation plan for Hayabuasa-2 visible muti-band cameras

Seiji Sugita^{1*}, Rie Honda², Shingo Kameda³, Tomokatsu Morota⁴, Hirotaka Sawada⁵, Chikatoshi Honda⁶, Hidehiko Suzuki³, Kazunori Ogawa⁵, Kei Shirai⁵, Manabu Yamada⁷, Ryosuke Nakamura⁸, Hayabusa-2 ONC Science Team⁵

¹University of Tokyo, ²Kochi University, ³Rikkyo University, ⁴Nagoya University, ⁵JAXA, ⁶Aizu University, ⁷Chiba Institute of Techonology, ⁸AIST

The Hayabusa-2 spacecraft will carry an optical navigation camera (ONC) system, consisting of a telescopic camera (ONC-T) with a filter wheel and two wide-angle cameras (ONC-W1 and -W2). We are planning to conduct a variety of scientific observation of the target asteroid 1999JU3 using ONC from a wide range of distances, including the home position (~20 km) to a touch down on the asteroid surface. This paper summarizes the ONC science observations, particularly multi-band imaging spectroscopic observations based on recent ground-based telescopic observations of the mission target asteroid.

Keywords: asteroid mission, primitive bodies, Hayabusa-2 mission, remote sensing, reflectance spectroscopy, instrument development