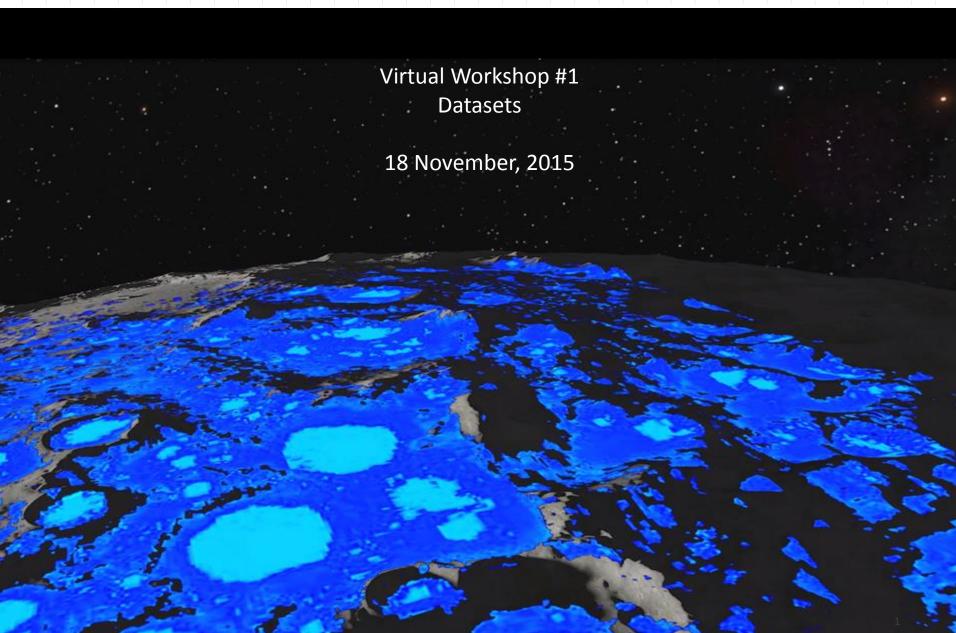
EXPLORING AND USING LUNAR POLAR VOLATILES: International Strategic Coordination





International Space Exploration Coordination Group



ISECG is a voluntary, non-binding coordination forum of 15 space agencies that

- Exchanges information regarding interests, plans and activities in space exploration
- Works together to strengthen both individual exploration programs and the collective effort

ISECG principles

- Open and inclusive
- Flexible and evolutionary
- Effective
- Supportive of mutual interests































Global Exploration Roadmap 🚳 📞 coes 🍰 🚜 coesa 🛵 🦇 🚳 🚳















2030











Commercial or Government Low-Earth Orbit Platforms and Missions





Sustainable **Human Missions**

to Mars Surface

Context



- Increasing evidence base for cold trapped volatiles at the lunar poles
- Multiple actors are targeting these chemical compounds as potential resources and as scientific repositories
- Need greater knowledge to establish utilisation potential
 - Quantity
 - Distribution
 - Accessibility
 - Extractability
- ISECG aims to facilitate coordination of these exploration activities and advance the understanding of the resource potential

http://lunarvolatiles.nasa.gov/





EXPLORING AND USING LUNAR POLAR VOLATILES

International Strategic Coordination

About Lunar Volatiles

Goal

Calendar

Knowledge & Capabilities

Current Activities

Key Strategic Issues

Reference

Forum for exchanging information, knowledge, and ideas

- An on-going discussion posting content
- Email address for comments, content and distribution list:
 - hq-lunarvolatiles@mail.nasa.gov

Engaging with:

- agencies
- academia
- scientists

private sector

Initial 3 workshops



- Data sets
- 2. Where on the surface and how
- 3. Minimising cost, maximising productivity?

Slides and a recording of the workshops are available afterwards on the website Open to ideas for future workshop topics

Workshop #1: Datasets



Moderator

James Carpenter – ESA ESTEC, The Netherlands

Panelists

- Mahesh Anand Open University, UK
- Paul Hayne Jet Propulsion Laboratory, USA
- Ko Hashizume Osaka University, Japan
- Paul Lucey University of Hawaii, USA
- Paul Spudis Lunar and Planetary Institute, USA

Supporting

- Nantel Suzuki NASA HQ, USA
- John Gruener Johnson Space Center, USA
- Chris Wilson SSERVI, USA

Agenda



- ◆ 5 minutes: Welcome, introduction, scope and purpose of the workshop James Carpenter
- ◆ 15 minutes: Overview of data sets and results providing information about lunar polar volatiles Paul Hayne
- ◆ 10 minutes key findings from LEAG SAT Paul Lucey
- ◆ 5 minutes ESA Topical Team response Mahesh Anand
- **◆ 15 minutes Panelist position statements**
- 60 minutes Discussion
- ◆ 10 minutes wrap up
- It doesn't end here......
 - hq-lunarvolatiles@mail.nasa.gov