IAF SPACE EXPLORATION SYMPOSIUM (A3)
Moon Exploration – Part 3 (2C)

Author: Mr. Steve Durst
International Lunar Observatory Association (ILOA), United States

ILOA HAWAI'I 5 MOON MISSIONS 2023 UPDATE

Abstract

International Lunar Observatory Association (ILOA Hawai'i) is progressing toward its flagship ILO-1 payload, an astronautics and astrophysics mission, to the Moon South Pole region with new contract signed with prime contractor Canadensys Aerospace Corp of Toronto, Ontario. ILO-1/2 payload proposals for carriers to the Moon surface have been submitted to China National Space Agency for Chang'E-7 lander, and to NASA / SpaceX for Artemis 3 Human Service Landing mission. ILOA is also developing potential agreements with commercial providers. The precursor 0.6-kg ILO-X dual astronomy instruments are now planned launch to the Moon South Pole area via Intuitive Machines Nova-C IM-1 lander aboard SpaceX Falcon 9 no earlier than June 2023; and ILOA hopes to achieve Milky Way Galaxy imaging, celestial sky, Earth / planets, and lunar surface observations with these two imagers. The narrower field-of-view camera has officially received the name Ka 'Imi (The Search) after names were submitted during a 3-month naming contest open to all Hawaii students. The wide field-of-view camera is to be named through a broader outreach method before launch. ILOA Human Moon Mission for servicing, upgrading and re-purposing or recycling instruments would follow when crew landings become frequent this decade. The first woman landing on the Moon (no later than 4 July 2026) also remains a priority focus and commitment. ILOA Galaxy Forum program is planning at least 4-5 events this year to advance Galaxy 21st Century Education in every class, and to share the ILO-X astronomy from the Moon data / images with the Galaxy Forum network and its collaborators globally.