



Concepts for Lunar Landers and Sample Return Missions

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We present the results of a study for a lunar polar lander conducted at ESA CDF Concurrent Design Facility and follow up activities. The goal is to demonstrate lunar landing, survival and exploration technologies for the future, geochemical studies of the poles, and search for ice in permanent shadows. We describe the top objectives, mission analysis, design and associated lander and rover. We discuss the possible payload complement in discussion with the community. We also describe the rationale for follow up Lunar Sample Return missions using an upgraded lander platform.