Icy satellites surface observations planning tool CKVIEW

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The Cassini spacecraft started to investigate the Saturnian icy satellites in June 2004 with the flyby of Phoebe. This flyby was followed by close flybys of many medium-sized icy satellites. We developed a tool to plan the surface observations of the icy satellites. This tool can be used to design high-resolution imaging mosaics during close flybys. It can also be used to calculate both the achieved and the planned surface coverage. Furthermore, it is possible to use CKVIEW to select the necessary images for the calculation of global image mosaics of the icy satellites. Similar functionality exists also for the other optical remote sensing instruments like the spectrometers VIMS and UVIS.

We will also show how CKVIEW can be used for the planning of imaging sequences and the analysis of the data in other planetary missions (e.g. Mars-Express, Rosetta, DAWN).