SOST

SOST has no segments or PIES in S86, but there are four outer moon observations which are part of the Participating Scientist program of Tilmann Denk. The only requirement on pointing is for #4, as stated.

1. ISS_209OT_KIVPOL069_PRIME,;2014-306T23:29
comment: "Jettison Activity. Will be deleted if RBOT problems occur."

This Kiviuq observation is important for the shape determination of this moon. Kiviuq is our best candidate for a binary or contact-binary. (A first among all satellites.) Therefore, it is the most important of these four.

2. ISS_210OT_ALBPOL073_PRIME; 2014-330T07:19

3. ISS_210OT_ALBPOL077_PRIME; 2014-328T04:29

These Albiorix requests are also for shape determination. These are particularly unique because the large orbit and inclination of the spacecraft allows for a significant deviation in sub-S/C declination which will never happen in the remainder of the mission. This will be very helpful for shape; usually, the variation is mainly in longitude when the observer and the orbit are co-planar. Here, the inclination of Cassini's orbit adds a "third dimension".

4. ISS_210OT_LOGROT022_PRIME; 2014-349T03:15
comment: "Must point within 15 deg of 244.2/-20.1"

This observation, near the end of the sequence, is a little bit less important, but we'd prefer to not lose it, too.