















|   | FINNISH<br>METEOROOLOGICAL<br>INSTITUTE |
|---|---|
| Rank Description                                      | Rationale                               |
| L1 solar wind & HMF +                                 |   |
|   | Solar monitoring                        |
| <b>3</b> Energetic particles + cold plasma            |   |
| 4 Coronagraph to L4/15                                | Viewing Earth-directed<br>CMEs          |
| <b>5</b> Coronagraph & Radio<br>Wave Detector to L4/5 | Viewing Earth-directed<br>CMEs          |
| 6 Auroral imager, Debris<br>monitor                   | Auroral monitoring                      |
| 7 Auroral imager                                      | Auroral monitoring                      |
| 8 Magnetometer  | Magnetospheric dynamics                 |
|   |   |

| SUMMARY OF HITCH-HIKER OPTIONS               |                  |  |
|--|------------------|--|
| Rank Description                             | Rationale        |  |
| <b>1</b> Dose monitor                        | Human safety     |  |
| 2 High energy ion detector                   | SEUs             |  |
| <b>3</b> High energy electron spectrometer   | Killer electrons |  |
| <b>4</b> Debris monitor                      | Debris impact    |  |
| <b>5</b> Medium energy electron spectrometer | Killer electrons |  |
| 6 High energy ion detector                   | Rad belt         |  |
| 7 High energy ion detector                   | Rad belt         |  |
| 8 EUV photometer                             | Drag, HF         |  |
| <b>9</b> UV photometer                       | Drag, HF         |  |
| <i>10</i> X-ray photometer / spectrometer    | Flares - SEPE    |  |
| 11 Auroral imager                            | Oval size        |  |
| 12 Coronagraph                               | Solar obs        |  |
| 13 Whole disk imager                         | Solar obs        |  |
| 14 Magnetograph                              | Solar obs        |  |
|  |                  |  |



