CME Catalogue Format Document (Version 02)

- 1. **Unique CME identifier** in the format HCME_C_YYYYMMDD_##, where C is the observing spacecraft (A or B), YYYYMMDD is the date during which the CME is first observed in HI-1 and ## is a two digit number to distinguish between CMEs occurring on the same day.
- 2. Time of the first HI-1 image in which the CME is observed (UTC).
- 3. **Observing spacecraft** (A or B).
- 4. **Southernmost extent of CME position angle** throughout the HI-1 field of view (degrees). Preceded by optional **less-than** symbol if the CME exceeds the angular field of view in HI-1.
- 5. **Northernmost extent of CME position angle** throughout the HI-1 field of view (degrees). Preceded by optional **greater-than** symbol if the CME exceeds the angular field of view in HI-1.
- 6. **Confidence level** (*poor*, *fair* or *good*)
 - (a) poor, an object spanning at least 20° in position angle is observed, but which poorly resembles a CME.
 - (b) fair, an object that resembles a CME, though some may disagree.
 - (c) good, an object that is unquestionably a CME.
- 7. The **postion angle used in the time-elongation fitting** (degrees). The fitting procedure is applied only to *fair* and *good* CMEs. For *poor* events this, and all subsequent columns, contain the value -999.
- 8. Name of text **File containing time-elongation profiles** in the format HCME_*C*__*YYYYMMDD*_##_PA*XXX*.dat, which contains the unique identifier and the position angle (*XXX*), in degrees, used in the time-elongation fitting.
- 9. CME **Speed** in kms^{-1} using **Fixed-Phi** fitting.
- 10. CME **HEEQ Longitude** in degrees using **Fixed-Phi** fitting.
- 11. CME Carrington Longitude in degrees using Fixed-Phi fitting.
- 12. CME **HEEQ Latitude** in degrees using **Fixed-Phi** fitting.
- 13. CME Launch time (UTC) from r = 0 using **Fixed-Phi** fitting.
- 14. CME Speed in kms^{-1} using Self-Similar Expansion¹ fitting.

¹The Self-similar expansion method assumes a half width of $\lambda = 30^{\circ}$ for all CMEs.

- 15. CME **HEEQ Longitude** in degrees using **Self-Similar Expansion** fitting.
- 16. CME Carrington Longitude in degrees using Self-Similar Expansion fitting.
- 17. CME **HEEQ Latitude** in degrees using **Self-Similar Expansion** fitting.
- 18. CME Launch time (UTC) from r = 0 using Self-Similar Expansion fitting.
- 19. CME **Speed** in kms^{-1} using **Harmonic-Mean** fitting.
- 20. CME **HEEQ Longitude** in degrees using **Harmonic-Mean** fitting.
- 21. CME Carrington Longitude in degrees using Harmonic-Mean fitting.
- 22. CME **HEEQ Latitude** in degrees using **Harmonic-Mean** fitting.
- 23. CME Launch time (UTC) from r = 0 using Harmonic-Mean fitting.

Time-elongation file format

- 1. **Pofile number** (0-4).
- 2. **Time** (UTC) of the first data point.
- 3. **Elongation** (degrees) of the first data point.
- 4. The **postion angle used in the time-elongation fitting** (degrees).
- 5. **Observing spacecraft** (A or B).