

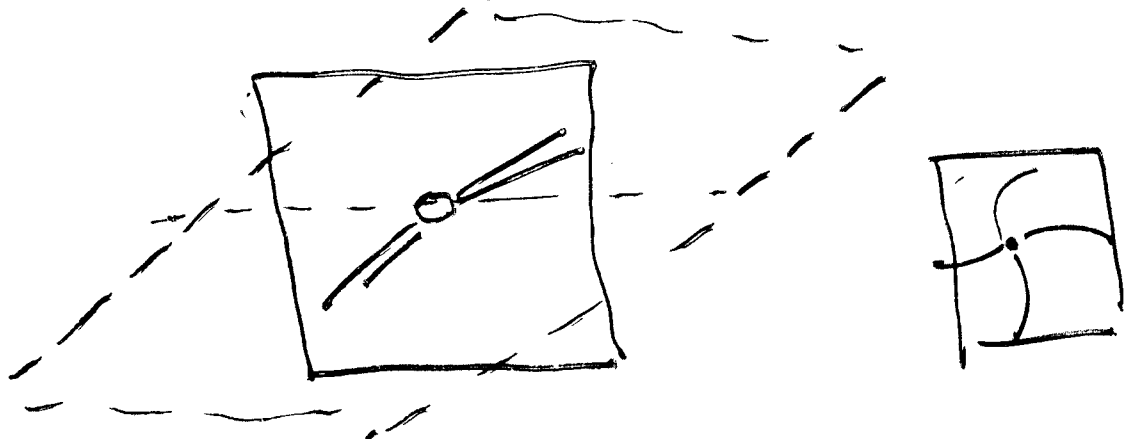
"STEREO" DATA DISPLAYS

RUSSELL HOWARD

1. SINGLE S/C , SINGLE MEASUREMENT TYPE (E.G. EUVI)
 2. SINGLE S/C , MULTIPLE MEASUREMENTS
(E.G. EUVI + COR1)
(COR1/2 + SWAVES)
?IMAGERS + INSITU?
 3. BOTH S/C , SINGLE MEASUREMENT TYPE
(G.G. EUVI-L + EUVI-T)
 4. BOTH S/C , MULTIPLE MEASUREMENTS.
- + TIME VARYING

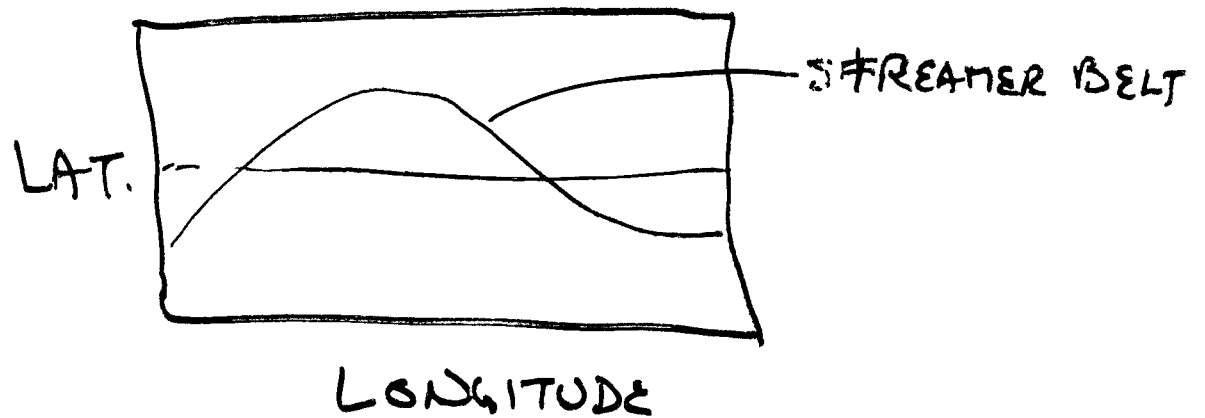
IMAGERS

- BRIGHTNESS PROJECTED
ONTO THE PLANE-OF-THE-SKY
- NEED TO VISUALIZE
 - "SLOWLY" VARYING
COMPONENTS
 - TRANSIENTS / CMEs
- WHAT IS THE VIEW IN THE
ECLIPIC e.g.



FOR THE STEADY STATE:

- SYNOPTIC MAP IS A GOOD APPROACH FOR B, pB, p, T



- ALLOWS OVERLAP OF IN-SITU MEASUREMENTS

CME MODELING

- AD-HOC
 - ADD DENSITY STRUCTURES AS NEEDED TO MATCH OBSERVATION OF INTENSITY, POLARIZATION
- PARAMETRIZED MODEL
- NUMERICAL TOMOGRAPHIC / DECONVOLUTION TECHNIQUES
 - NEED TO VIEW THE RESULT FROM DIFFERENT VIEWPOINTS

CME DESCRIPTION

- CURRENTLY DESCRIBE CME WITH SINGLE SPEED.
- WILL NEED TO MEASURE MULTIPLE FEATURES TO CREATE A VELOCITY FIELD

STEREO: 2 yr. mission

Rapidly changing viewpoints

Not enough time to learn by
doing

Requires:

Well thought-out 2 yr. plan

Tools available at the start
of the mission to evaluate
the observations obtained

Understand stereographic
reconstruction capabilities +
limitations as a function
of separation angle