Example: STEREO beacon CME detection

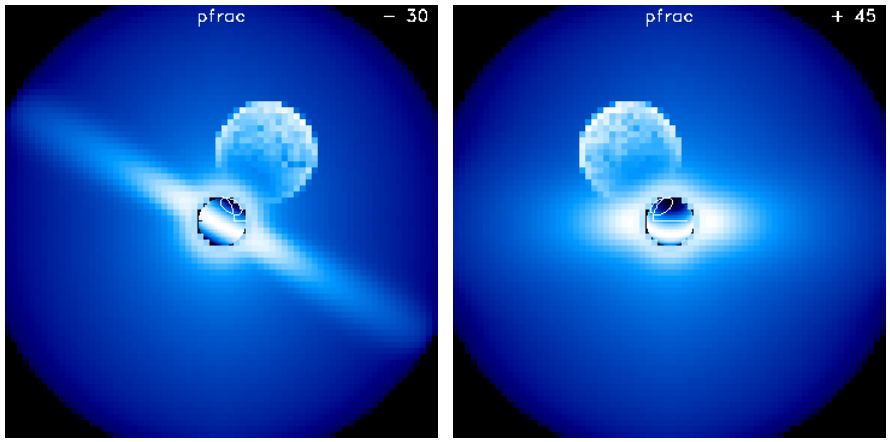
OVERVIEW

Objective:
Use near-real-time STEREO beacon data to infer direction, speed, extent, and mass of Earth-directed CMEs

Application:
Advance warning of oncoming CMEs affecting geospace

Forecast Gain:
Immediate, High

GRAPHIC



Caption

APPROACH

Strategy:
Forward modeling study to develop understanding of stereo images, then construction of ops analysis tools

Uniqueness:
Only N-R-T beacon analysis underway, is based upon triangulation

Context:
Complements tomographic approaches

PROGRAMMATICS

Resources Needed:
0.2 FTE level of effort

Development Time:
2-3 years at 0.2 FTE

Current Status: Basic LOS routines done, analysis not yet started