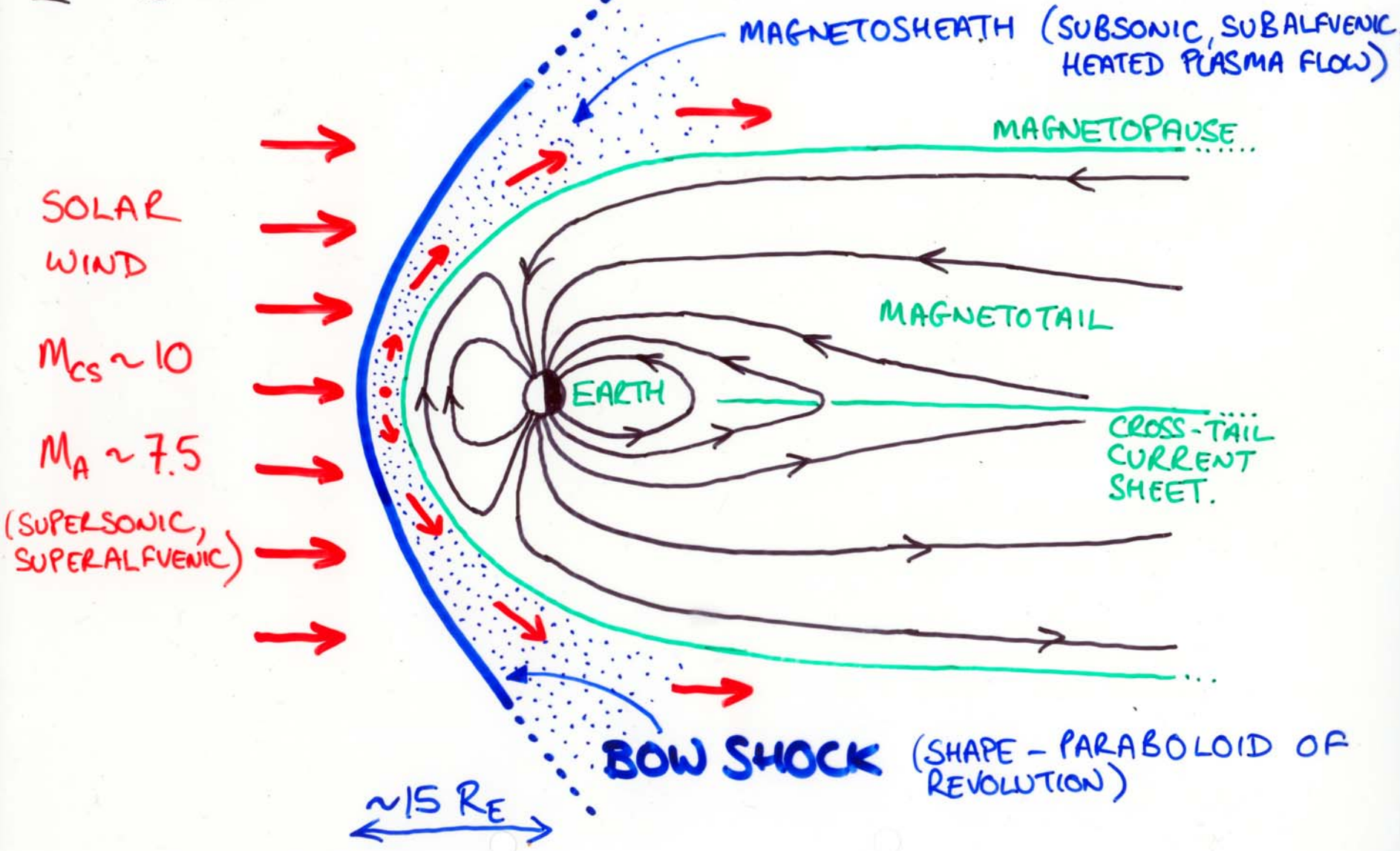


STANDING SHOCK - EARTH'S BOW SHOCK

← TO SUN



MAGNETOSHEATH (SUBSONIC, SUBALFVENIC, HEATED PLASMA FLOW)

MAGNETOPAUSE

MAGNETOTAIL

CROSS-TAIL CURRENT SHEET

BOW SHOCK (SHAPE - PARABOLOID OF REVOLUTION)

$\sim 15 R_E$

SOLAR WIND

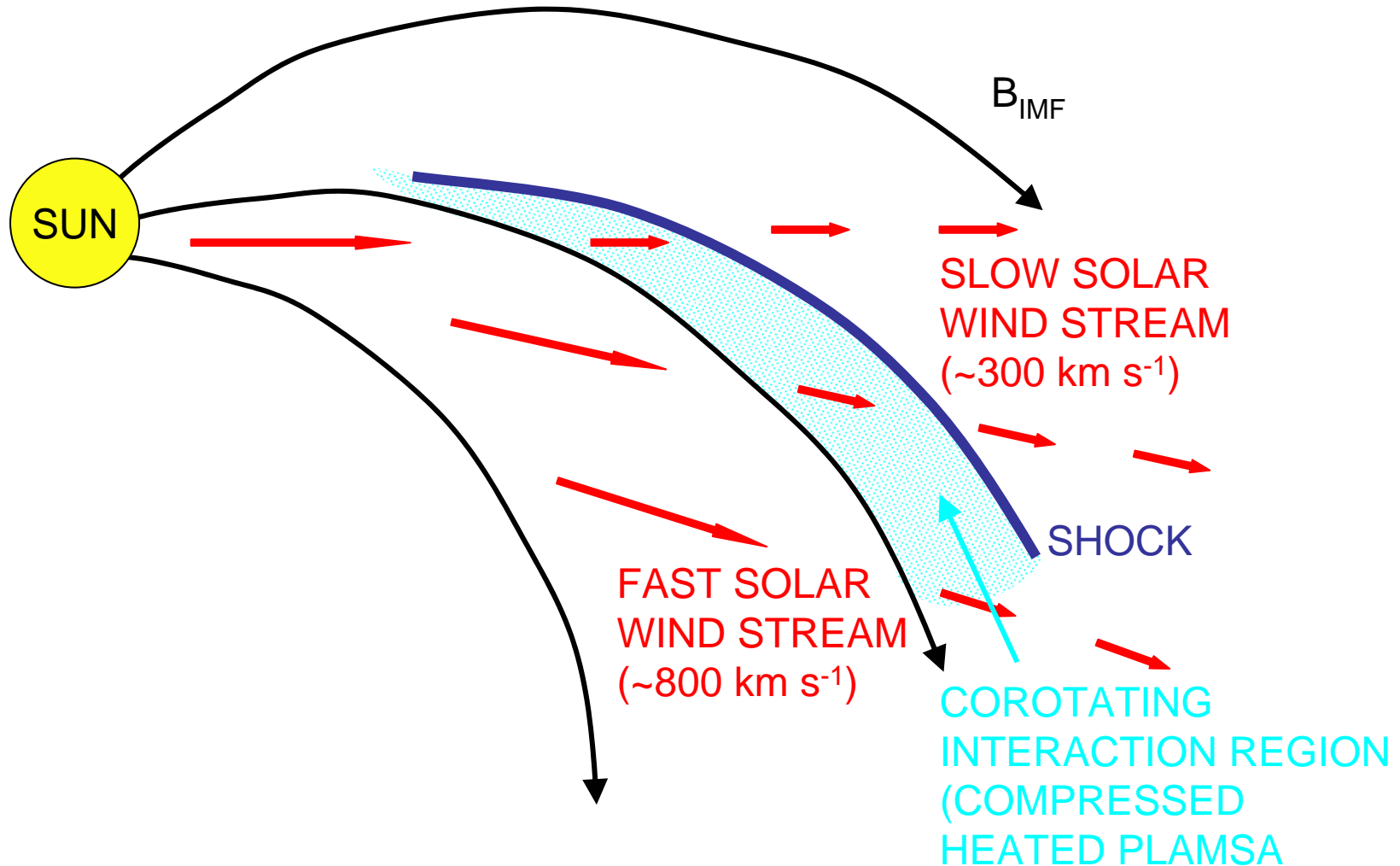
$M_{cs} \sim 10$

$M_A \sim 7.5$

(SUPERSONIC, SUPERALFVENIC)

EARTH

Travelling Shocks – Interplanetary Shocks



Forward and Reverse Shocks

- CMEs/magnetic clouds expand at supersonic/super-Alfvénic speeds in the solar wind rest frame:

