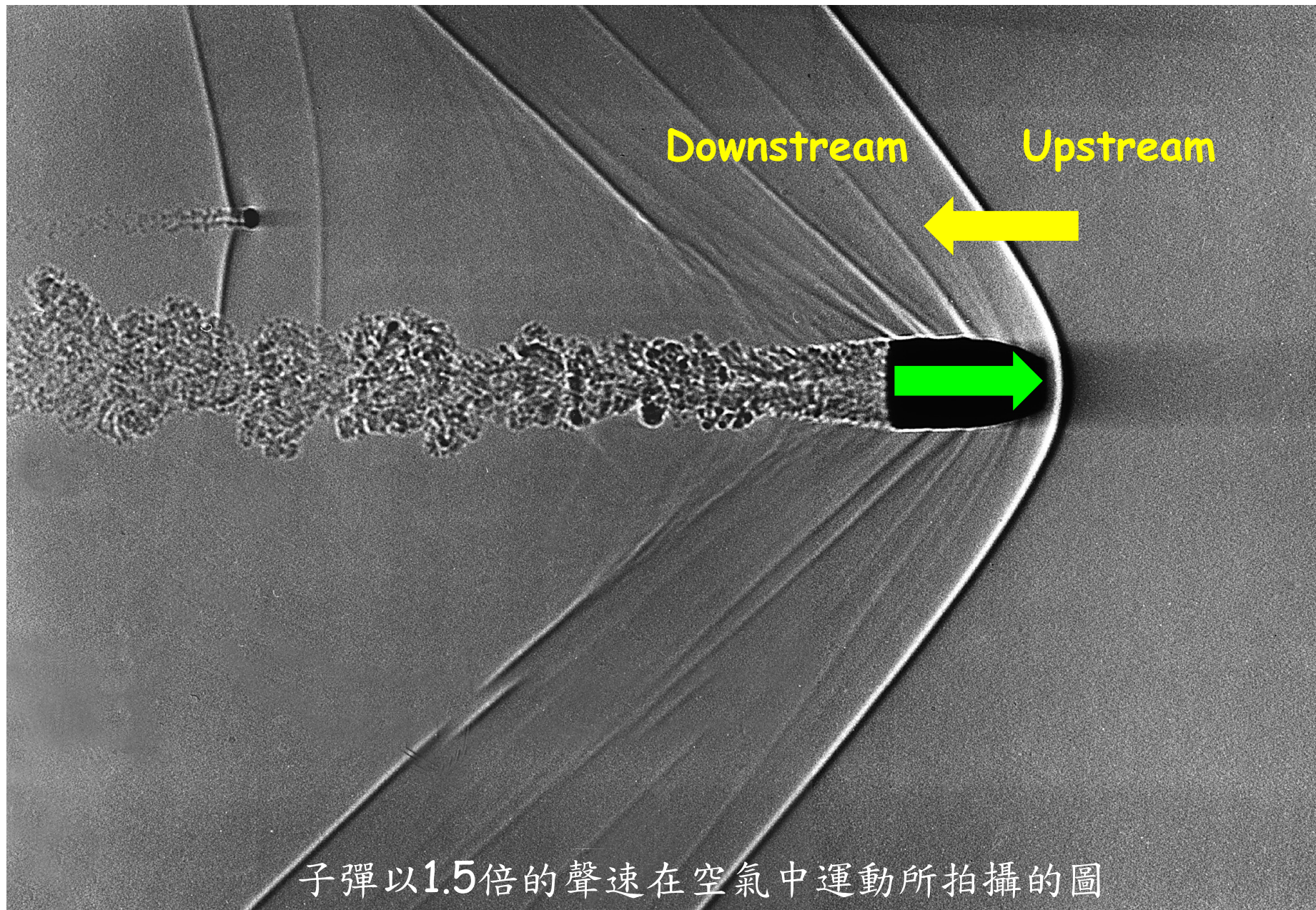
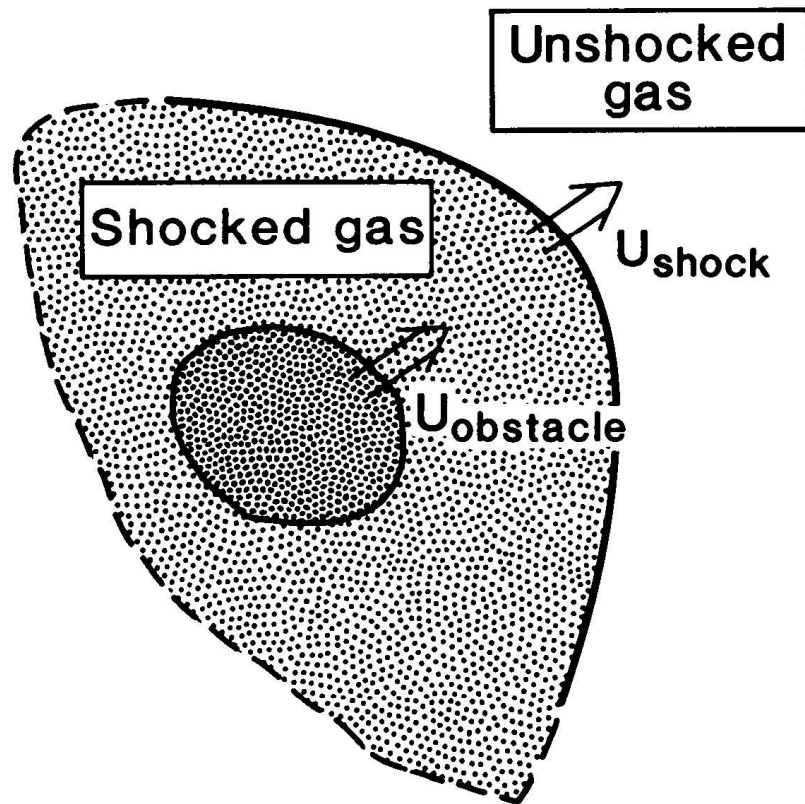
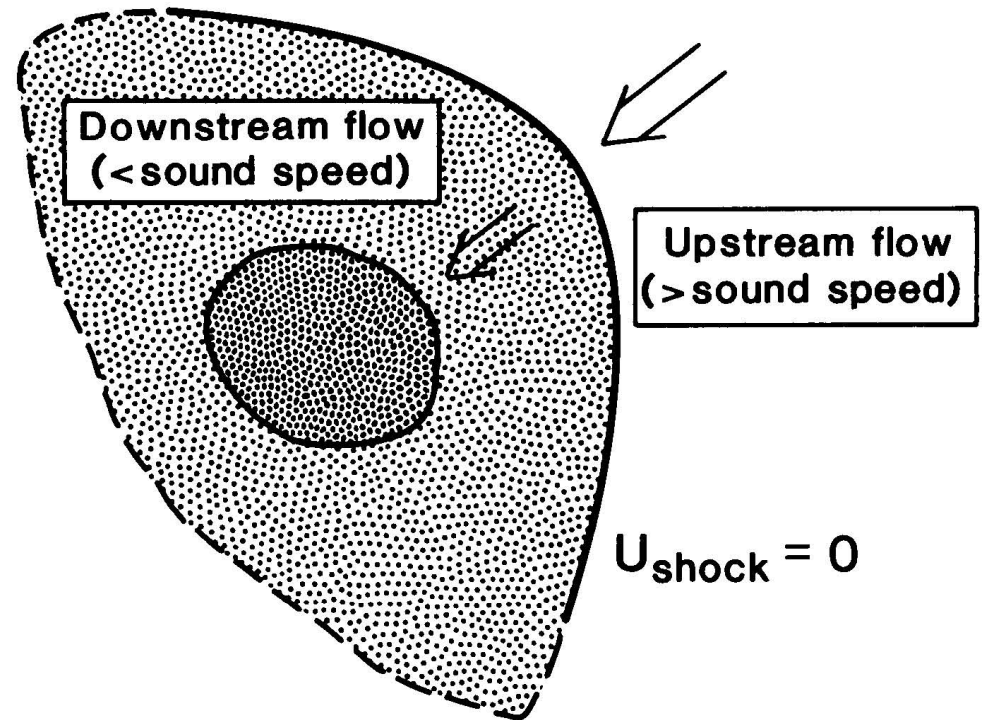






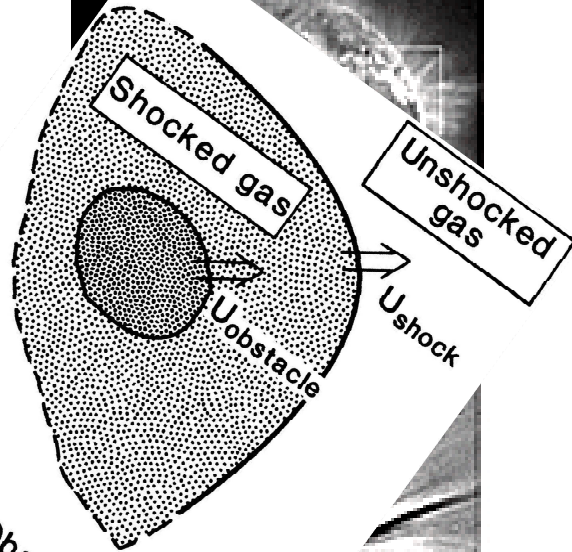
Moving Obstacle



Stationary Shock

Interplanetary Shock (IP Shock)

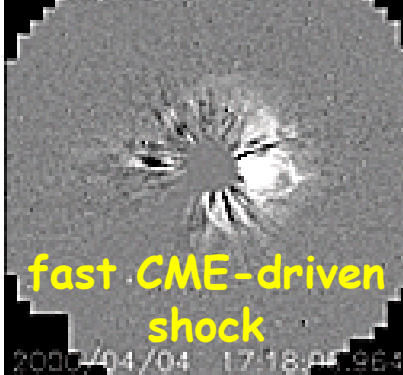
04-10/04/2000



Moving Obstacle

2000/04/04 16:54:56.677

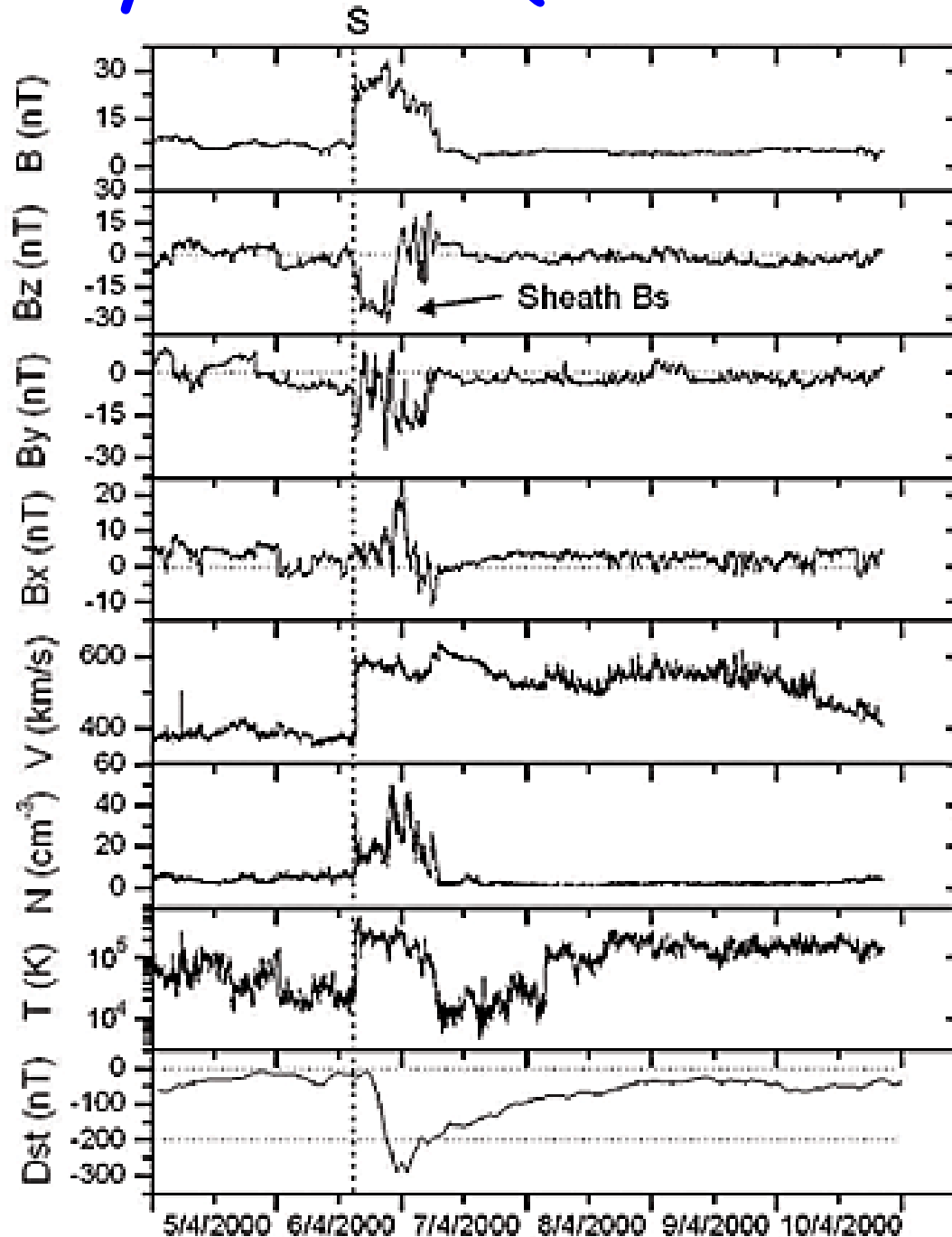
LASCO/C3

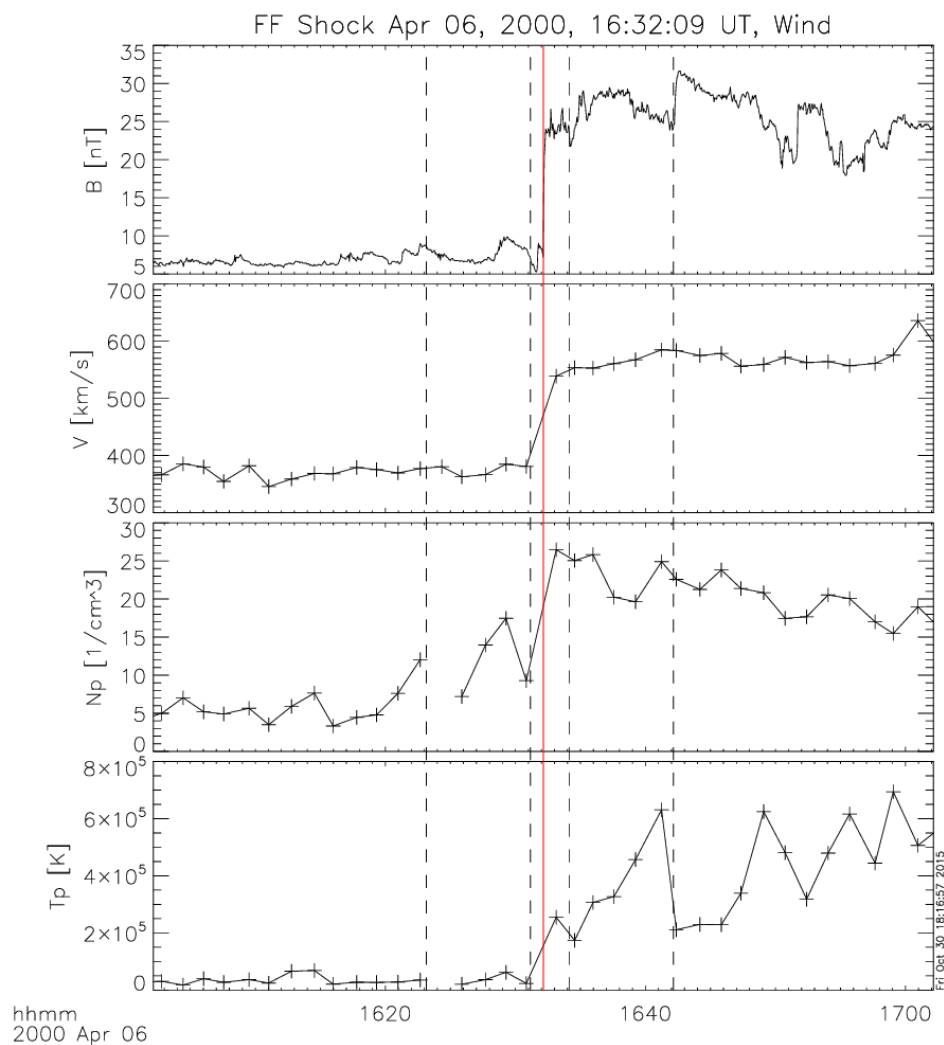


fast CME-driven shock

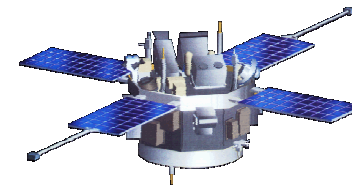
2000/04/04 17:18:45.964

$V_{exp} = 1927 \text{ km/s}$





Normal: $[-0.97, -0.10, -0.22]$ in GSE



$V_{sw2} = 560$ km/s

$V_{sw1} = 380$ km/s

$V_{shock} = 760$ km/s

Spacecraft Frame

$V_{sw2}^* = 200$ km/s

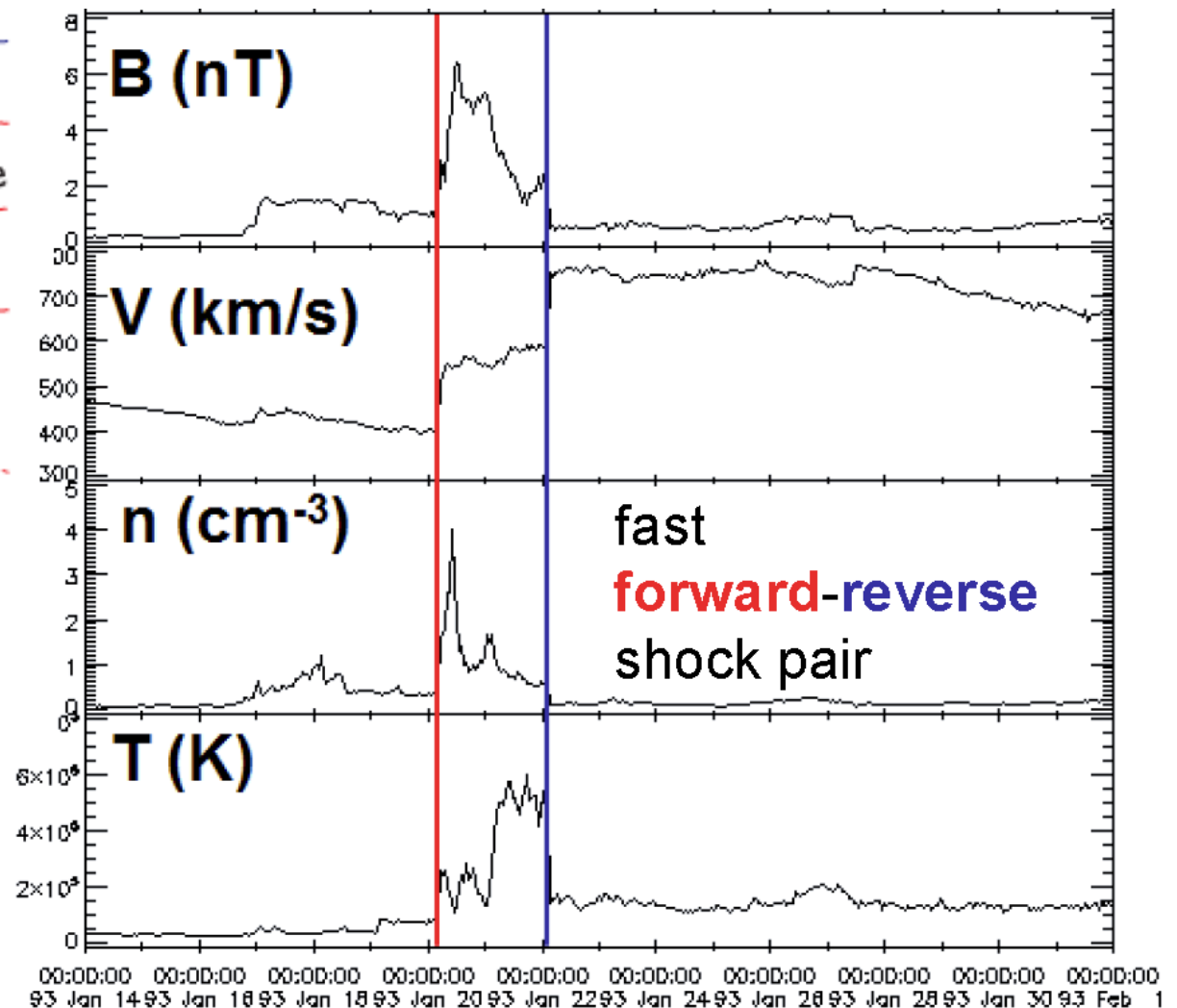
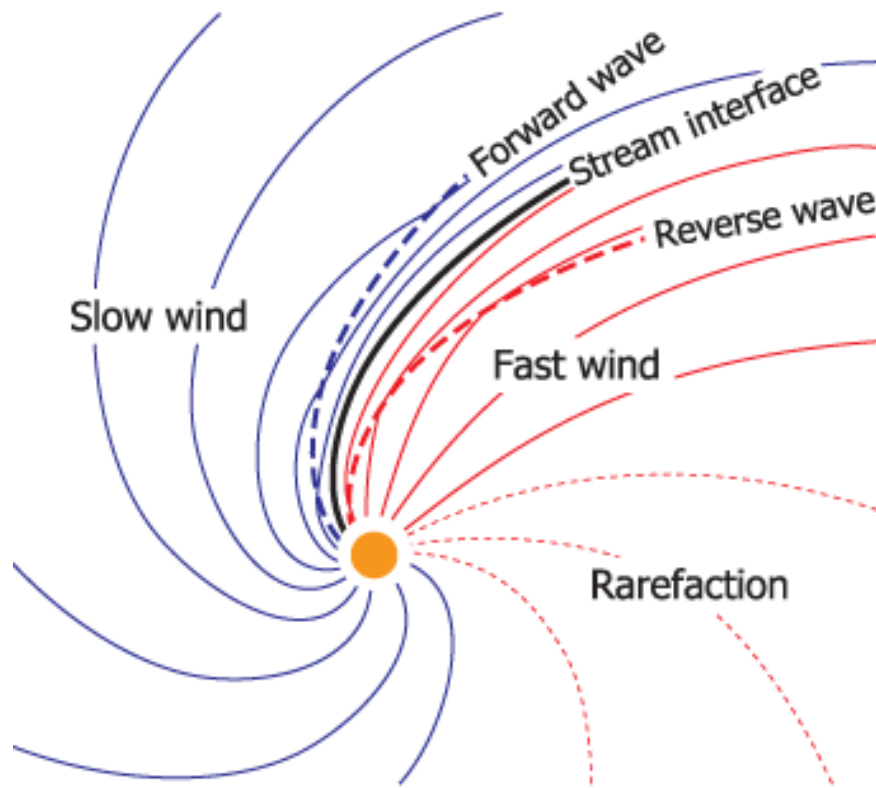
$V_{sw1}^* = 380$ km/s

Downstream

Upstream

Shock Frame

Co-rotating Interaction Region (CIR)

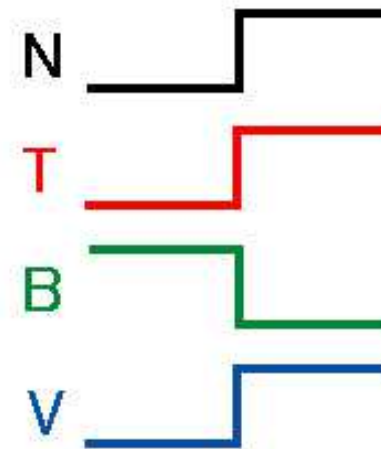
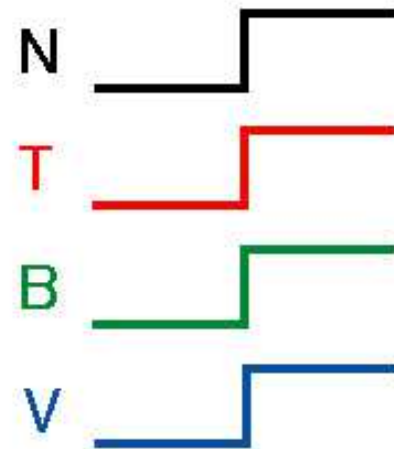


INTERPLANETARY SHOCK SIGNATURE

(in spacecraft frame of reference)

Fast Forward [FF]

Slow Forward [SF]

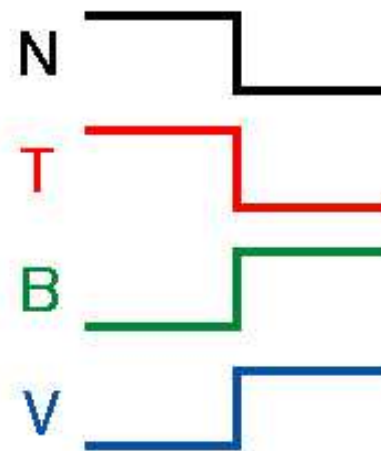
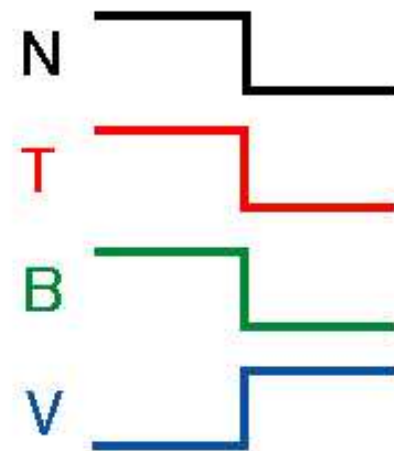


Time



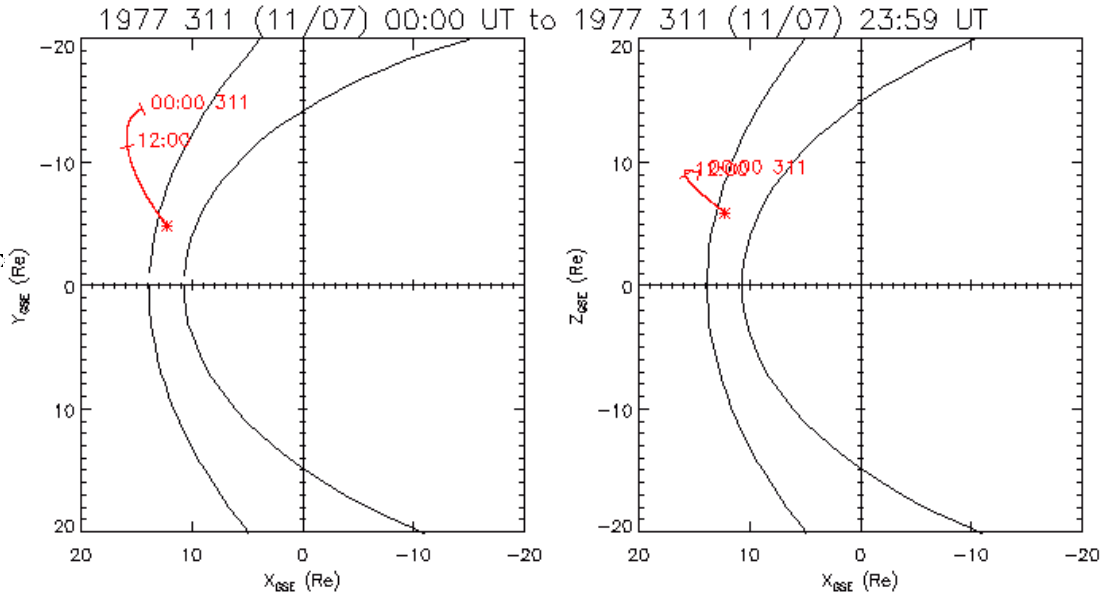
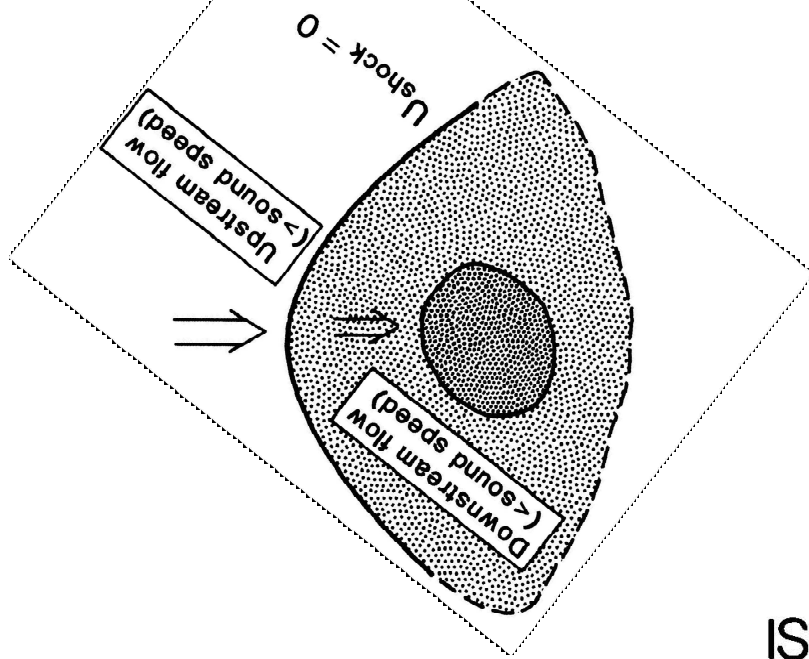
Fast Reverse [FR]

Slow Reverse [SR]



Time





ISEE-1 7 Inbound 7 Nov 1977

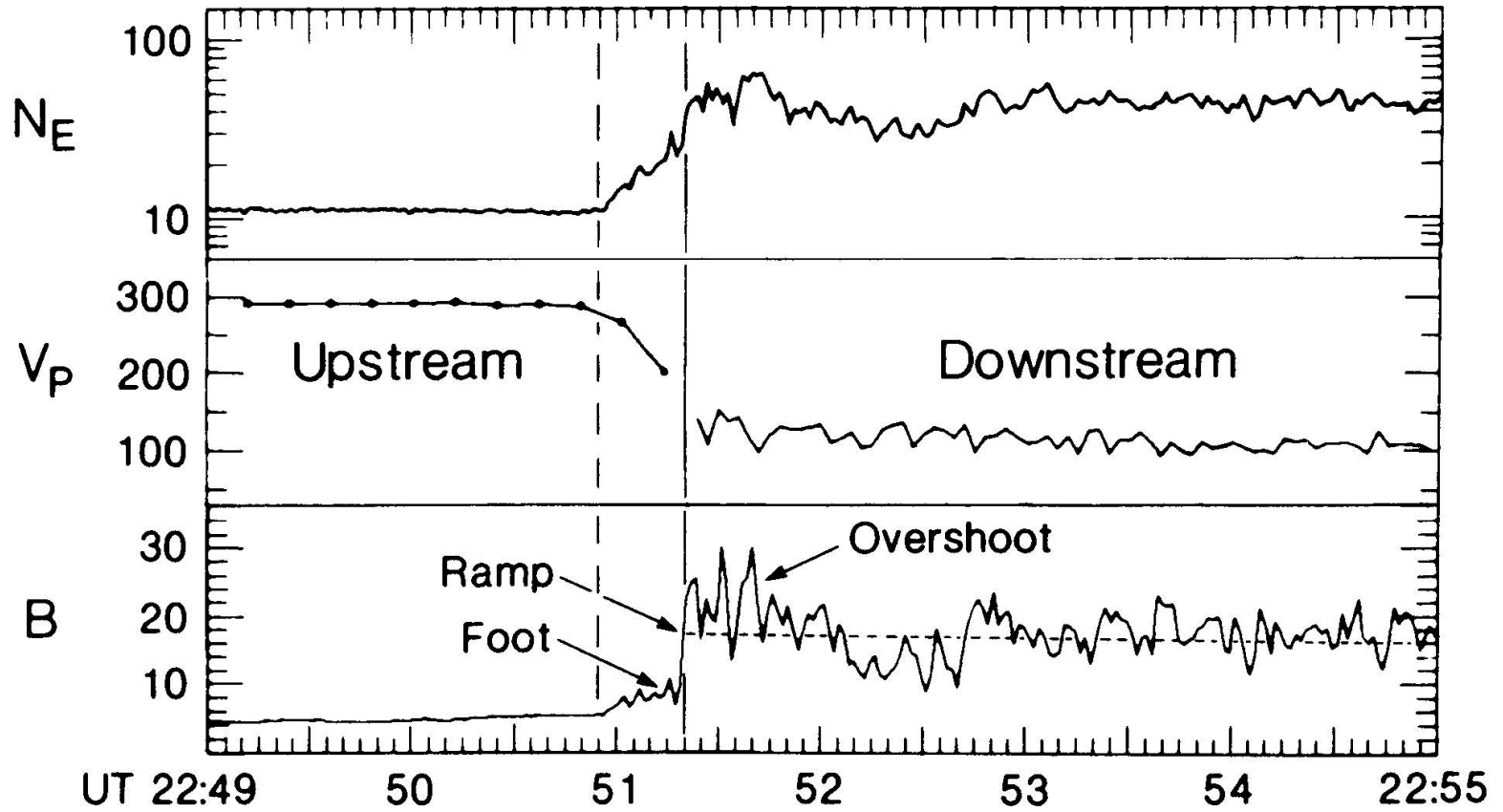


Fig. 5.4 in M. G. Kivelson and C. T. Russell (1995)