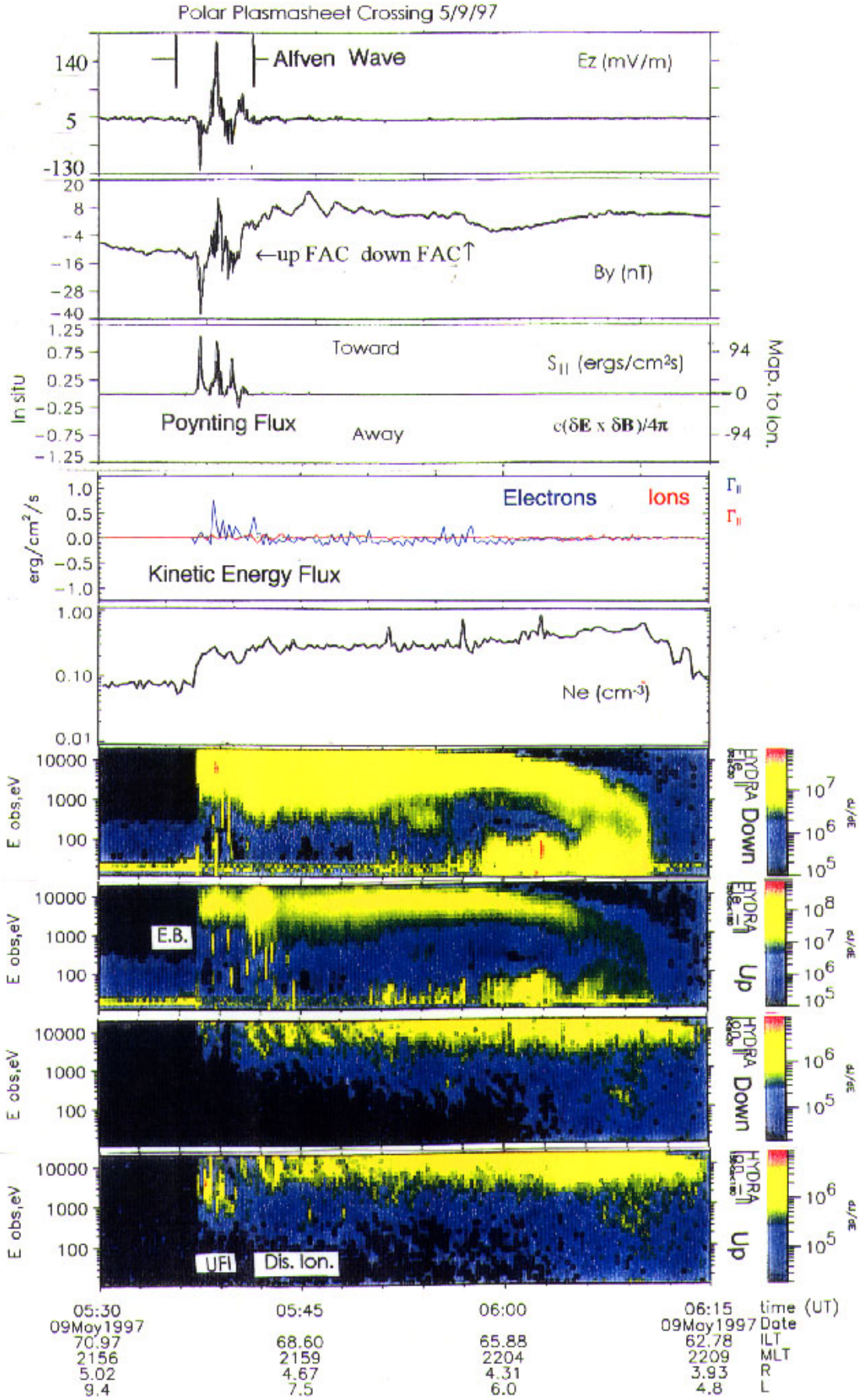
Polar Plasmasheet Crossing 5/9/97
Alfven Wave
Ez (mV/m)
140
5
-130
←up FAC down FAC↑
By (nT)
20
8
-4
-16
-28
-40
Toward
Away
Poynting Flux
$S_{\parallel}$ (ergs/cm²s)
$c(\delta E \times \delta B)/4\pi$
In situ
Map. to Ion.
1.25
0.75
0.25
-0.25
-0.75
-1.25
94
0
-94
Electrons
Ions
Kinetic Energy Flux
erg/cm²/s
1.0
0.5
0.0
-0.5
-1.0
Ne (cm⁻³)
1.00
0.10
0.01
E obs,eV
10000
1000
100
HYDRA Down
HYDRA Up
E.B.
UFI
Dis. Ion.
dJ/dE
05:30
09May1997
70.97
2156
5.02
9.4
05:45
68.60
2159
4.67
7.5
06:00
65.88
2204
4.31
6.0
06:15
09May1997
62.78
2209
3.93
4.8
time (UT)
Date
ILT
MLT
R
L