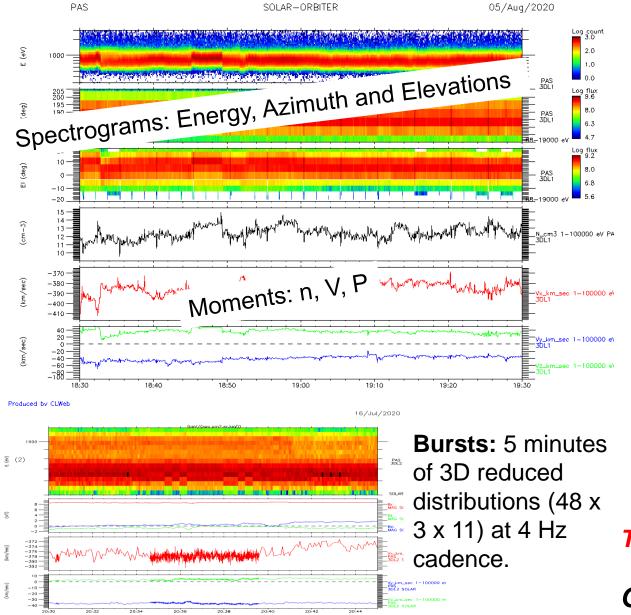
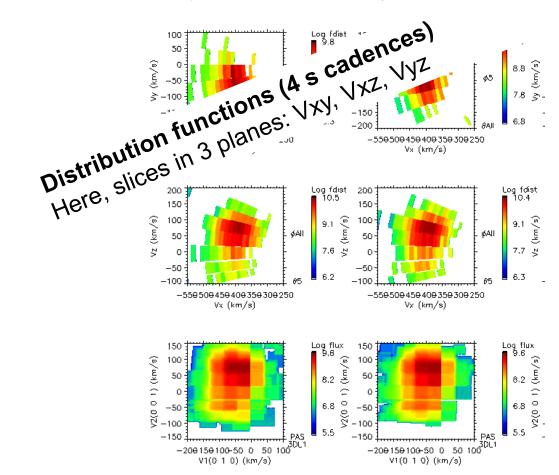
## **PAS/SWA – First 3 months... some examples of nice observations**



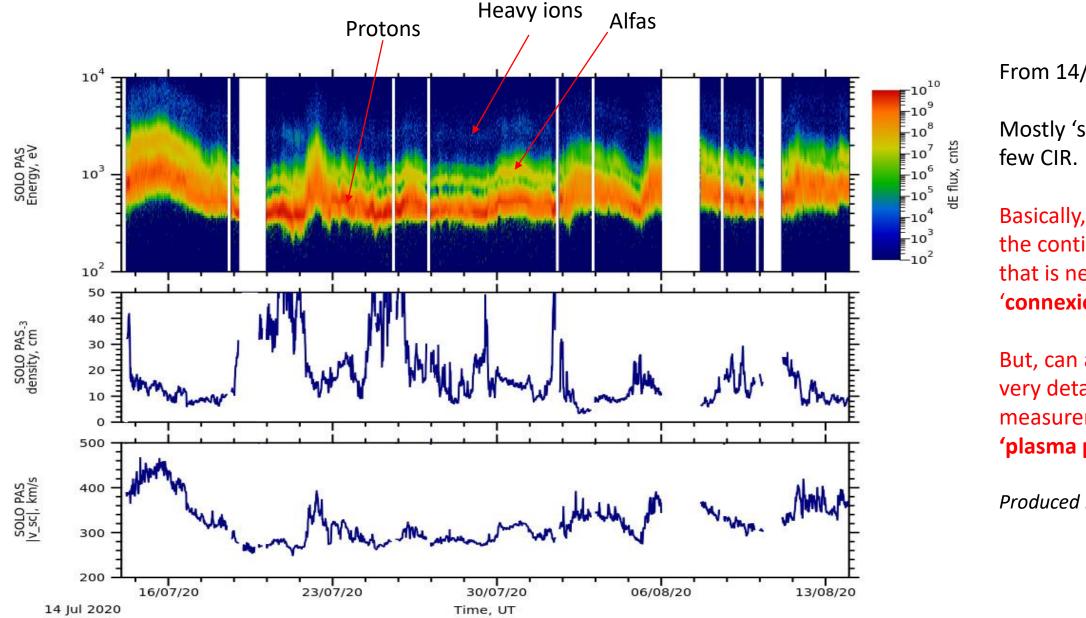
<sup>05/</sup>Aug/2020 18:47:14.071 05/Aug/2020 18:47.1



Thanks to others (esp. MAG) for sharing observations.

ONLY WORK IN PROGRESS (not yet AGU ...)

### FROM LARGE to SMALL SCALES. First month of PAS/SWA observation.



From 14/07 to 15/08

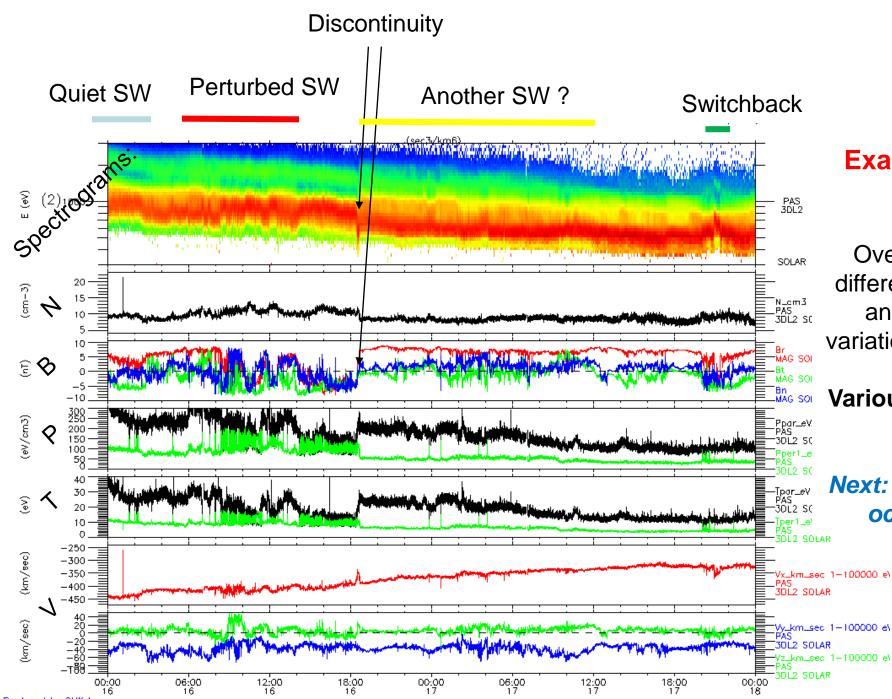
Mostly 'slow' wind. A few CIR.

Basically, PAS provides the continuous survey that is needed for the 'connexion' science.

But, can also perform very detailled measurements for **'plasma physics'** topics.

Produced by AMDA/CDPP

Created by AMDA(c) v3.6.0 24/09/2020 16:22:47

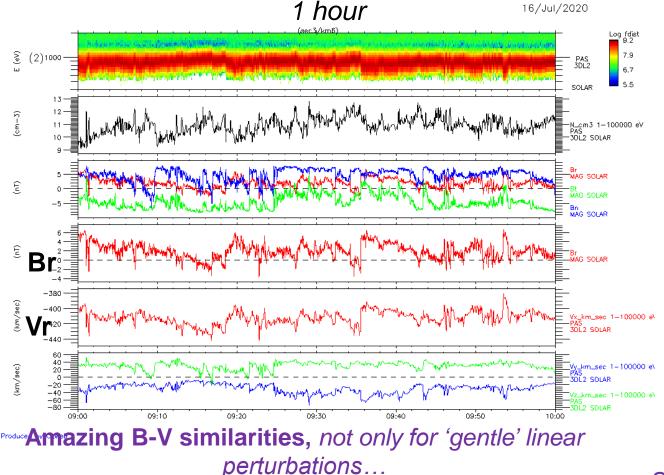


# Example of an interesting time period (July, 16-17)

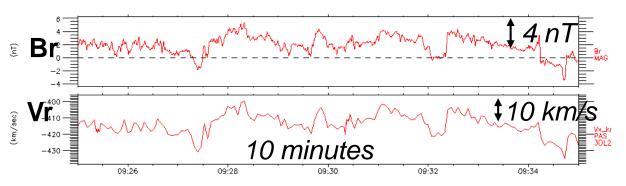
Over ~ 50 hours, crossing of quite different solar winds, although velocity and density show only moderate variations: ~ 400+/- 50 km/s; ~8 +/- 2 cc

## Various forms of quiet and disturbed solar winds

Next: view of interesting phenomena occuring during these 2 days.

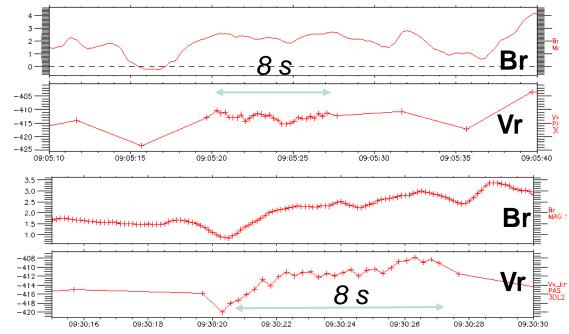


### Actually: $\delta B/B_0 \sim \delta V/V_a$ (B<sub>0</sub>~7.5 nT; V<sub>a</sub>~55 km/s)



## Perturbed SW: What does 'Alfvenicity' mean ?

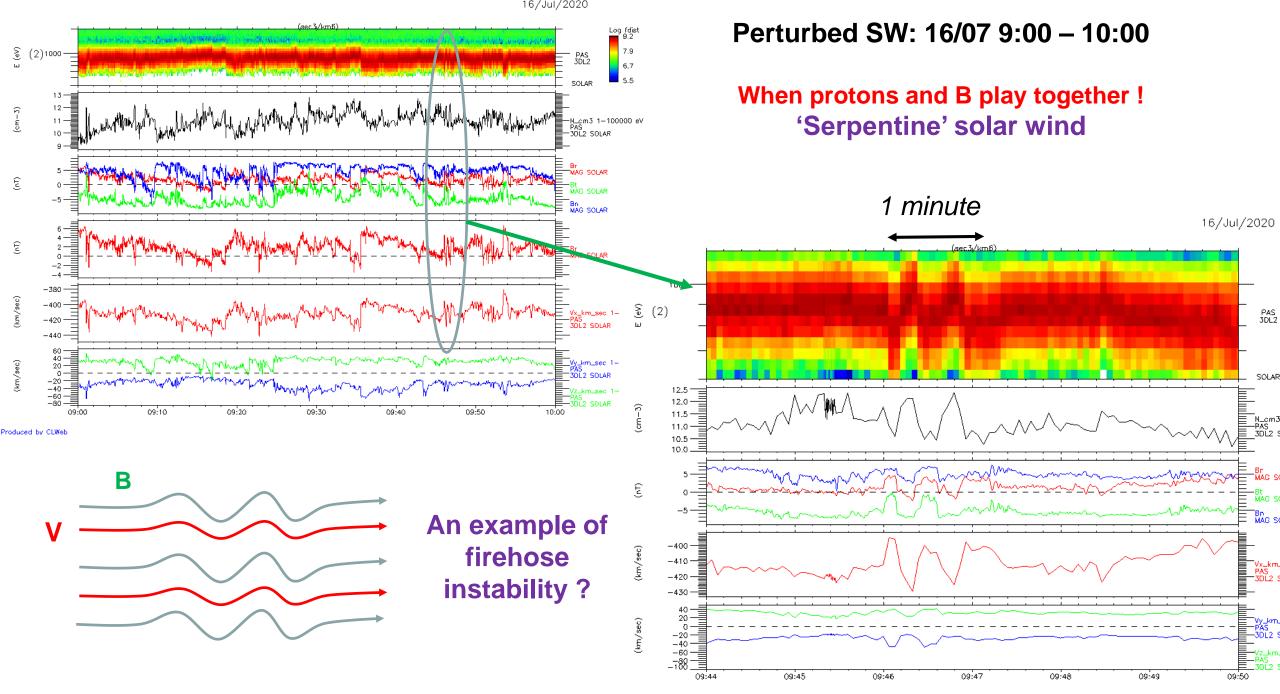
(not necessarily the correct term...)



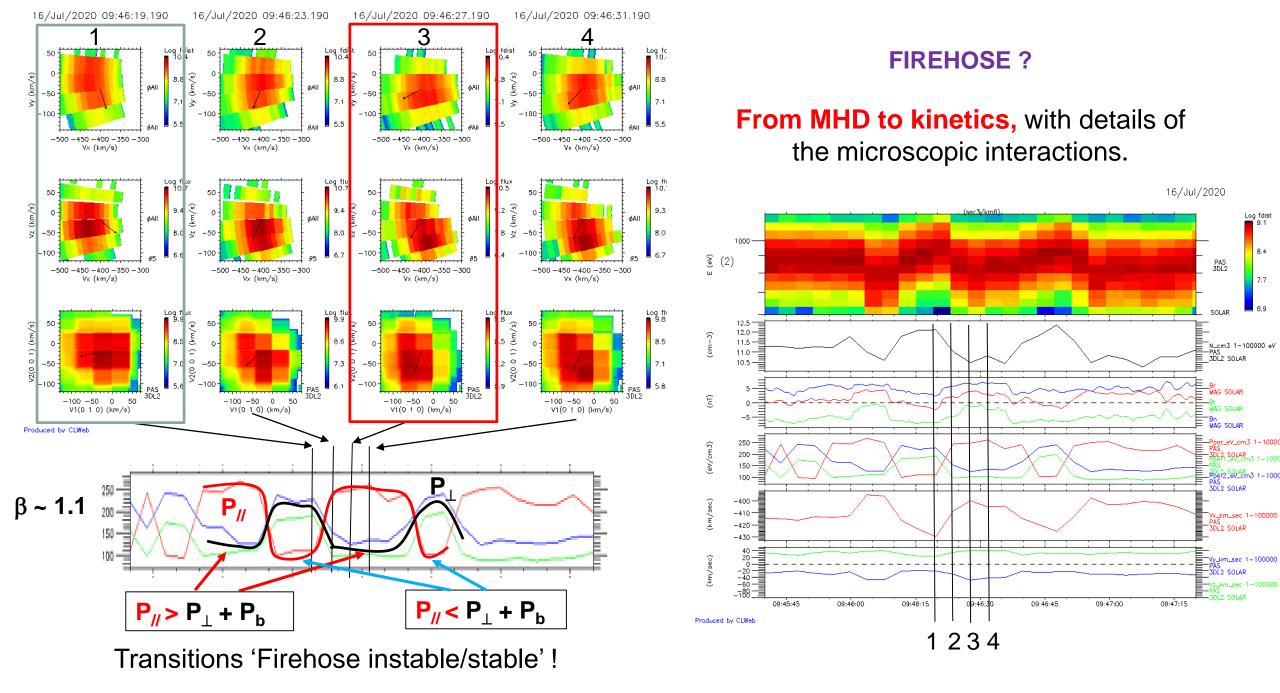
#### Still there during snapshots, at sub-second resolution Down to the dissipation range ( $V_{sw}$ . $\delta \tau \sim \rho_i$ )

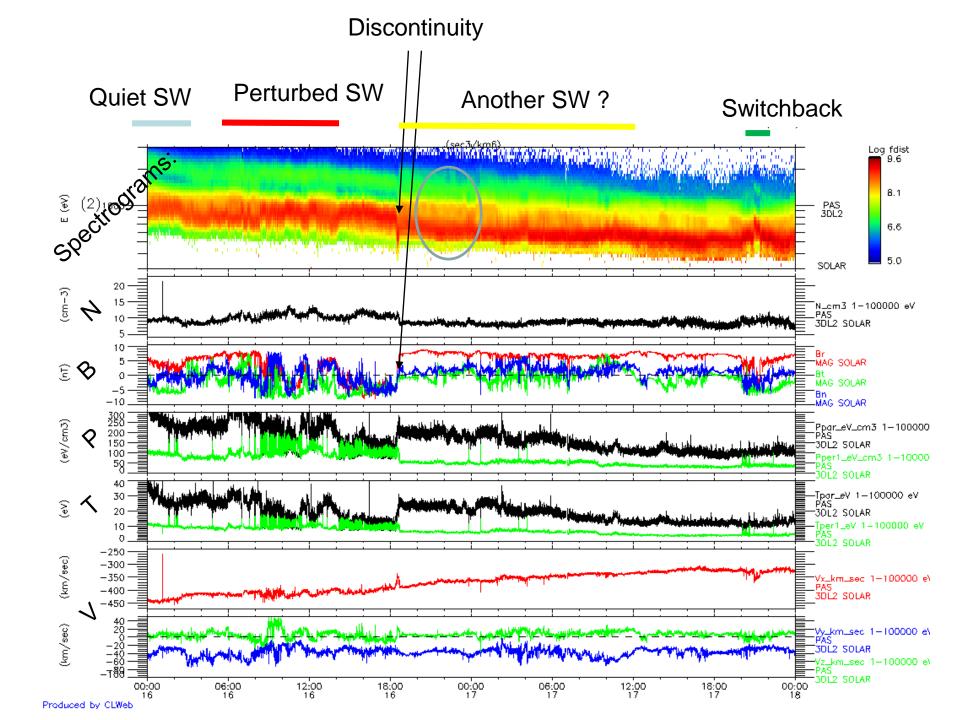
Same  $\delta B - \delta V$  relationship over several orders of scales.

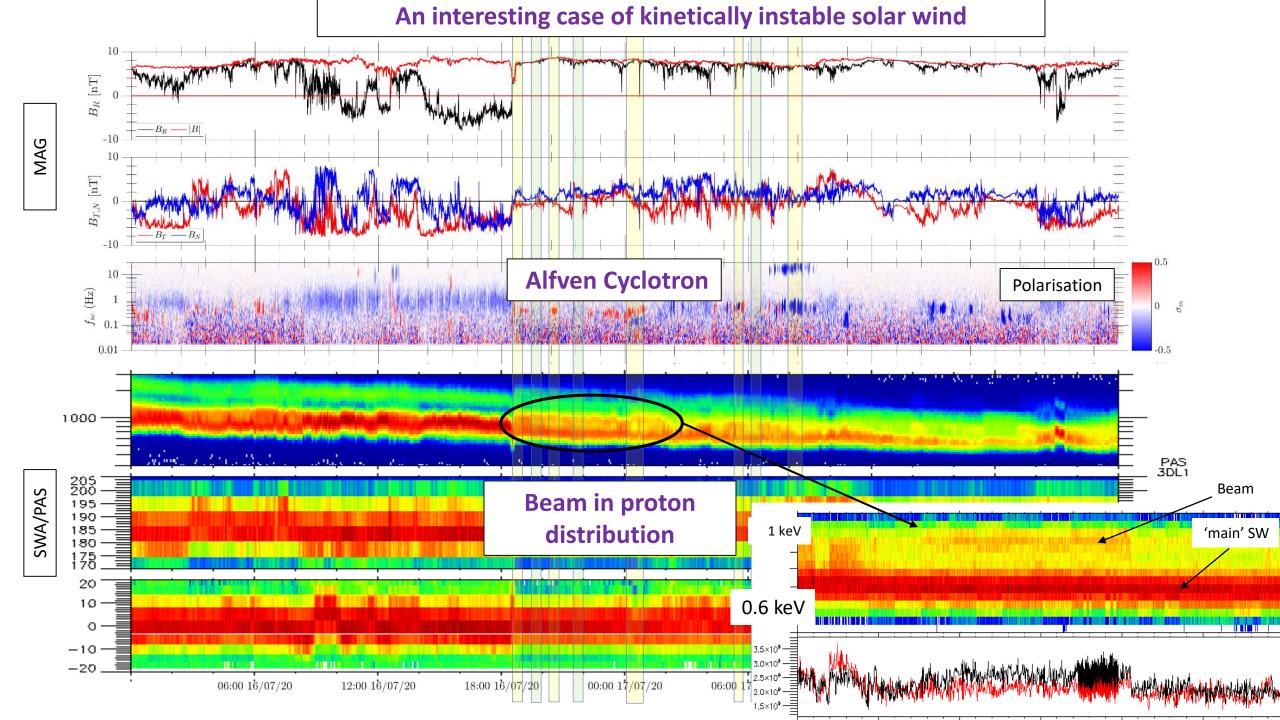
Physical consequences to be analyzed but quite a **proof of PAS measurements quality** ! (and MAG too...)

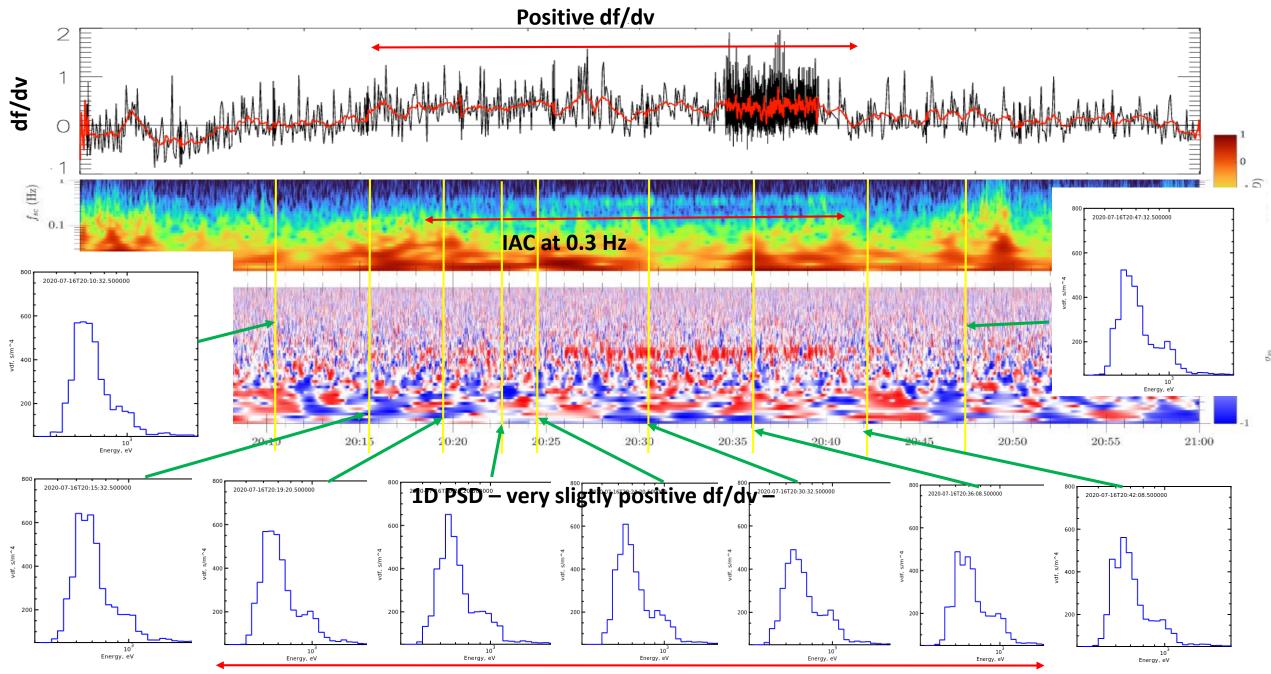


Produced by CLWeb

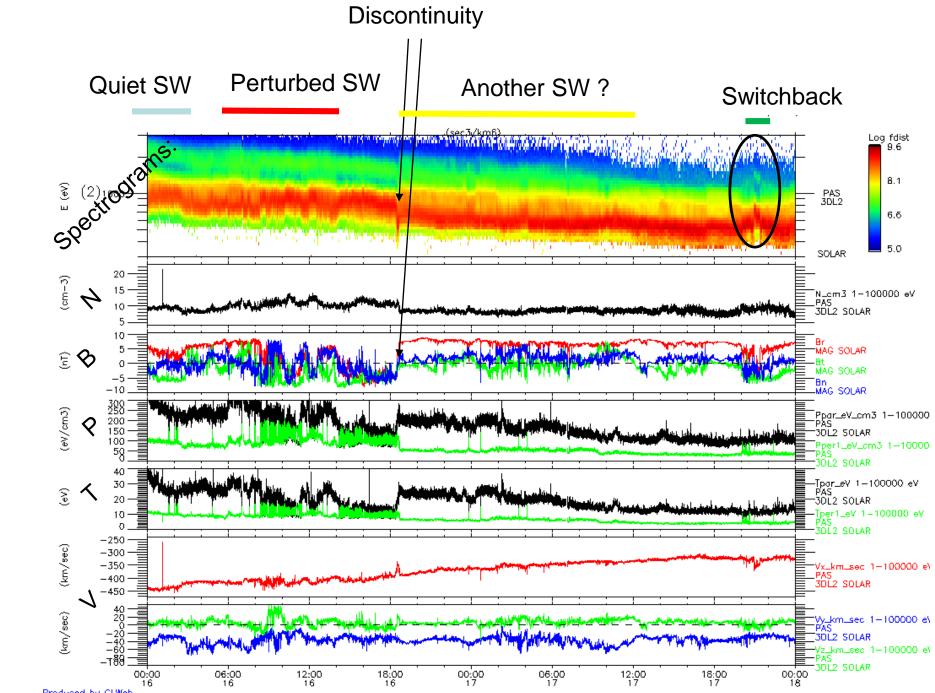






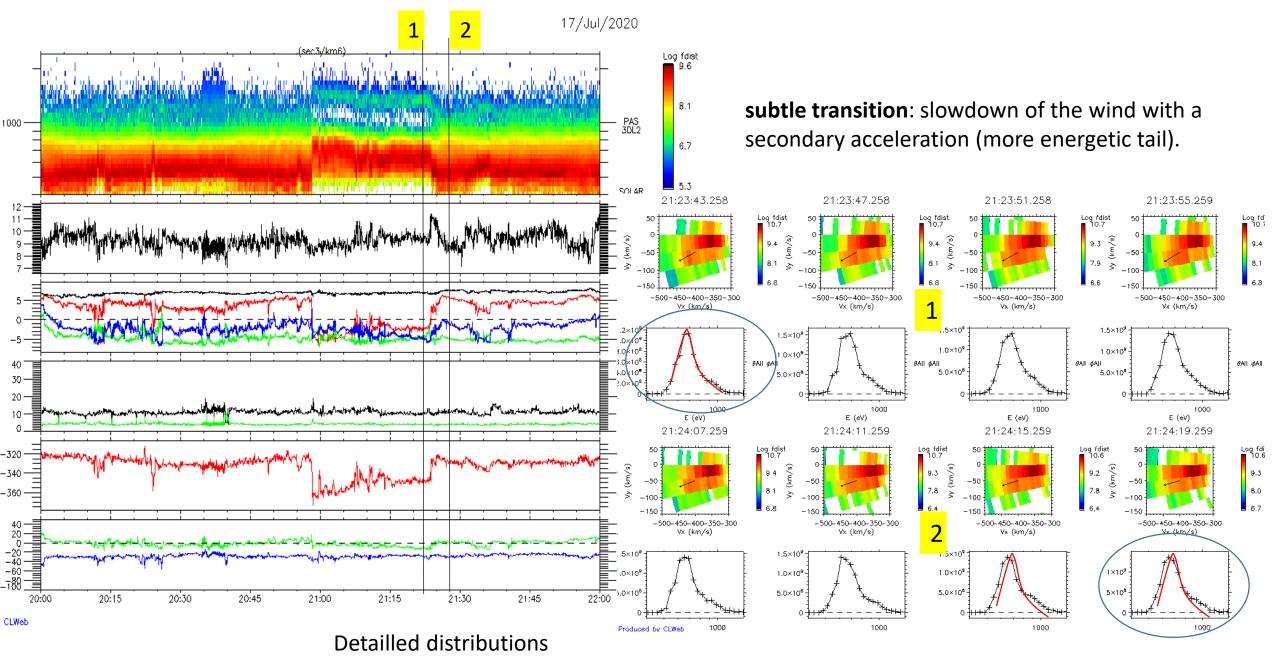


Could be more likely 'critical fluctuations': spontaneous fluctuations at marginal stability (Ichimaru's book, 2004)



Produced by CLWeb

#### Example of a nice switchback.



#### Another example of switchback.

