

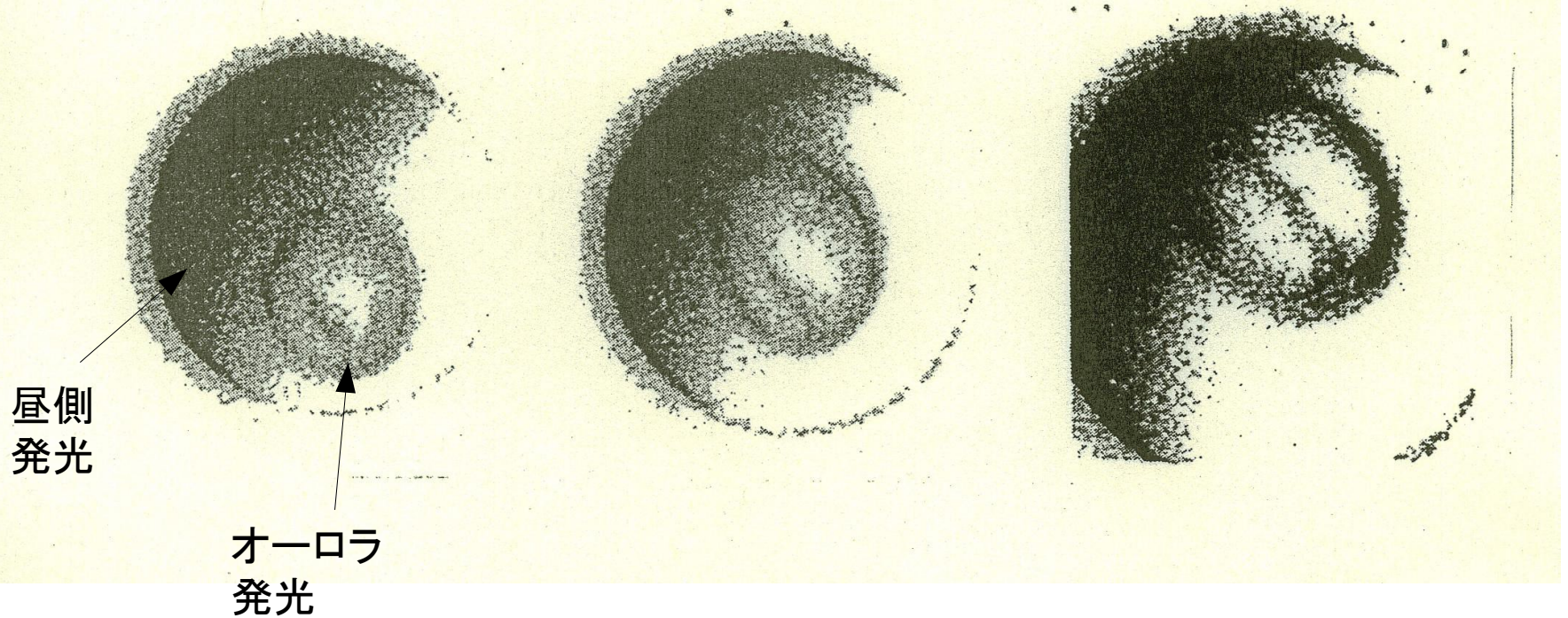
中緯度短波レーダー研究会、2014.1.27、名古屋

テーターオーロラのヌルーセパレーター構造

九州大学名誉教授
田中高史

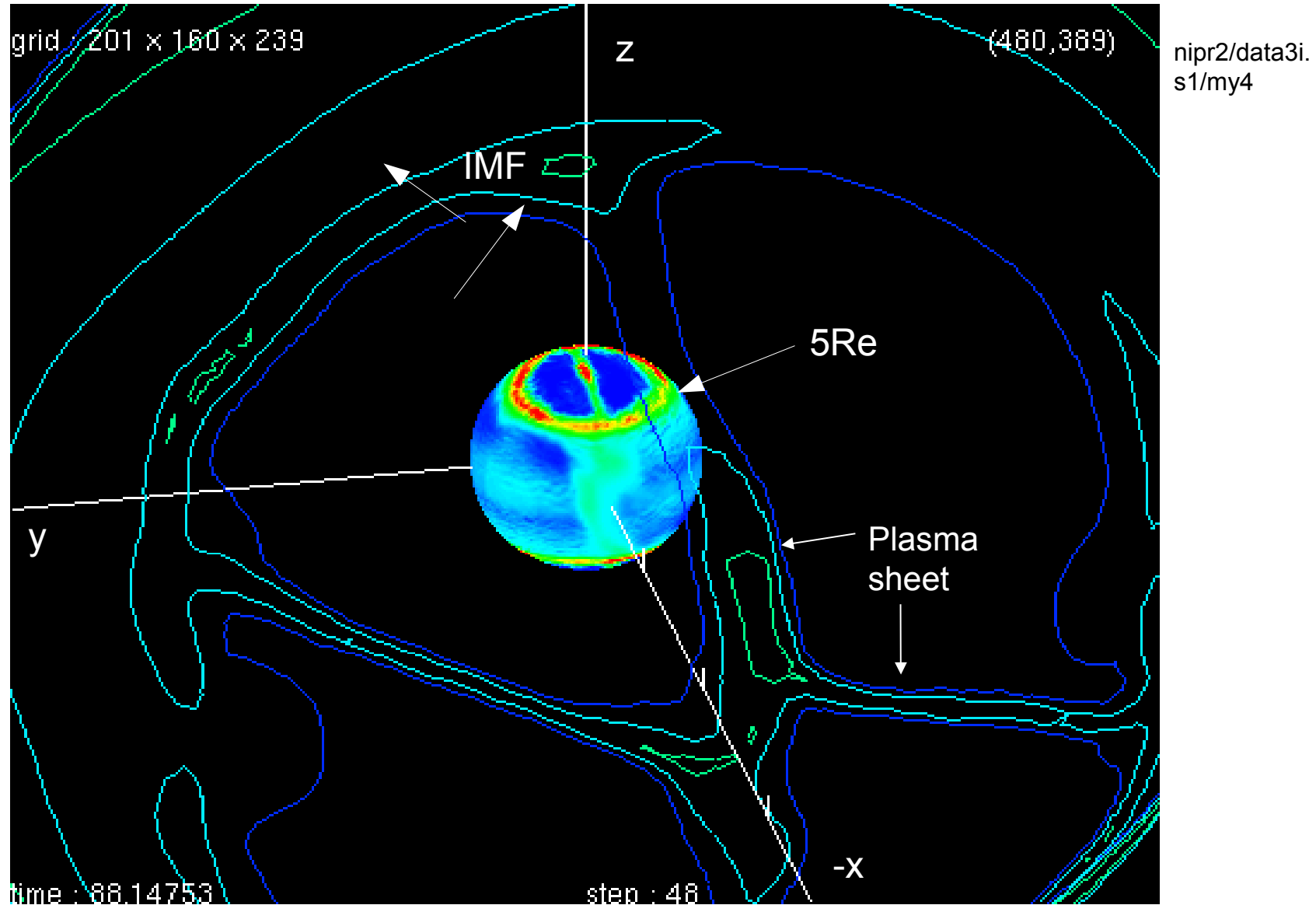
衛星カメラによるテータオーロラの観測

A sequence of UV images of the theta aurora observed by DE-1 on Nov.8, 1981 (L.Frank)



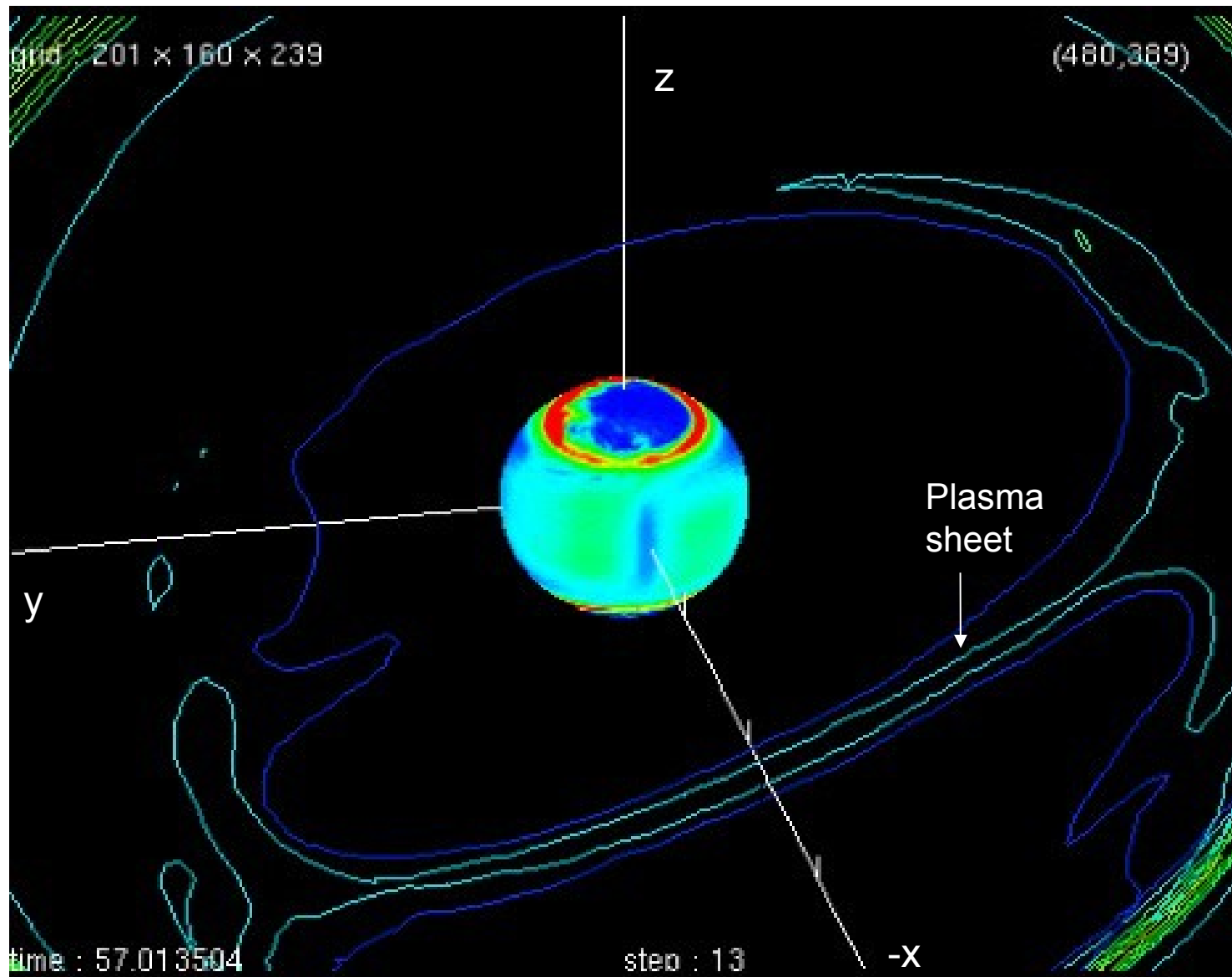
Θ aurora reproduced by MHD simulation (level 6)

(IMF B_y switch: -10 nT $\rightarrow$ 10 nT)

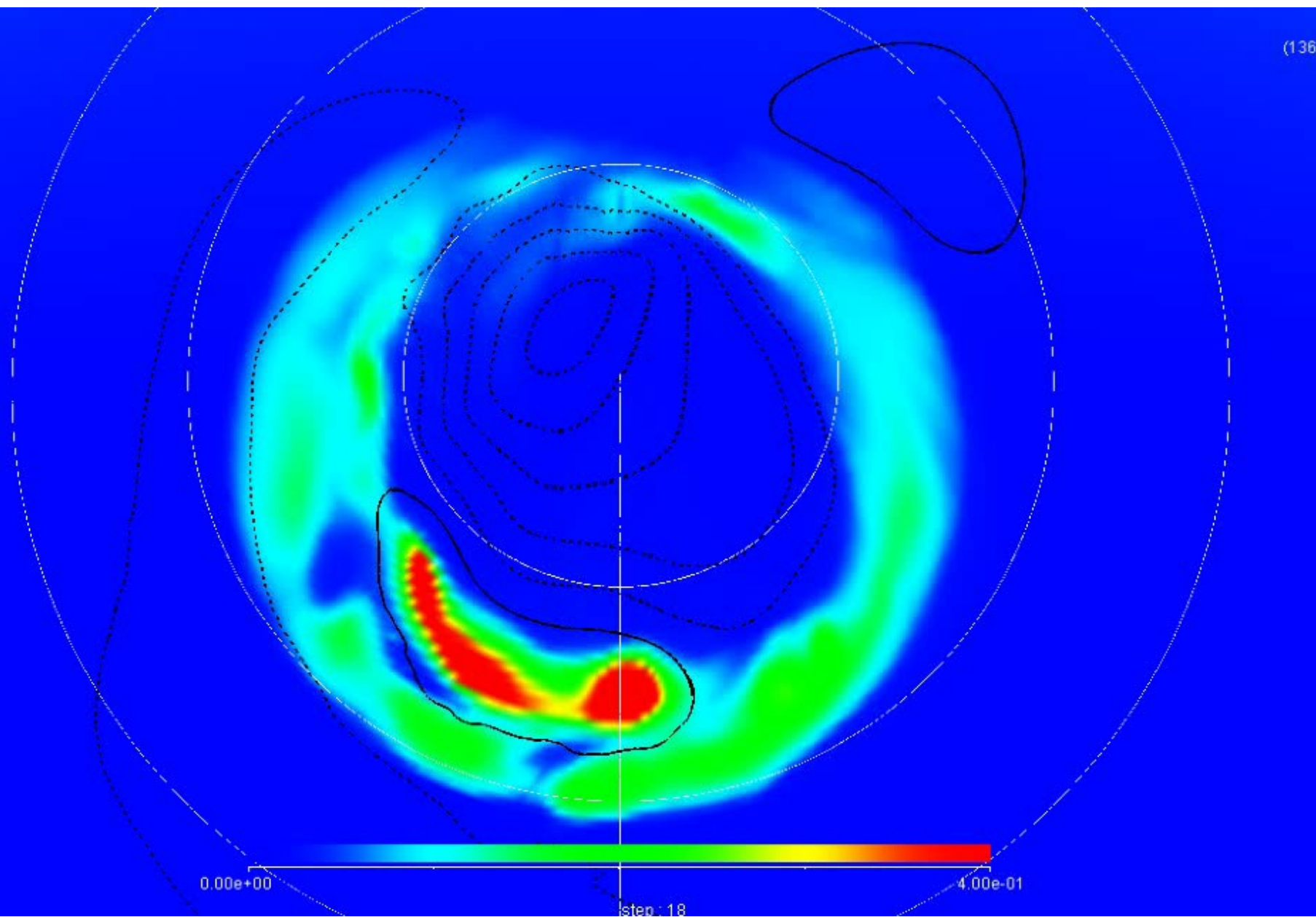


Θ aurora reproduced by MHD simulation (level 6)

(IMF B_y switch: -10 nT $\rightarrow$ 10 nT)



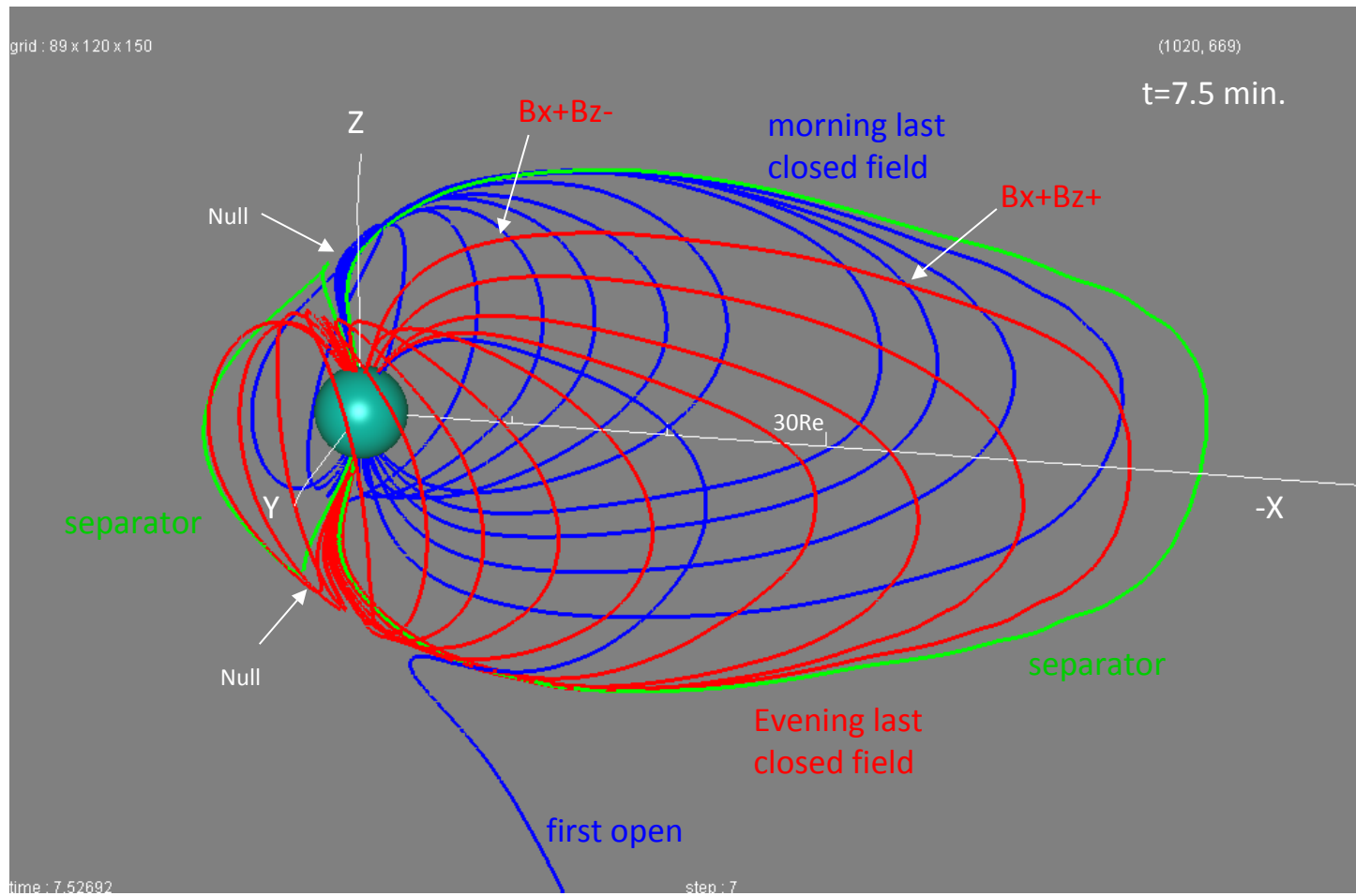
Θ aurora in the ionosphere (Σ by level 7)



Nict5/save1/data6i/hist.10.i2

Null-separator structure under the northward IMF

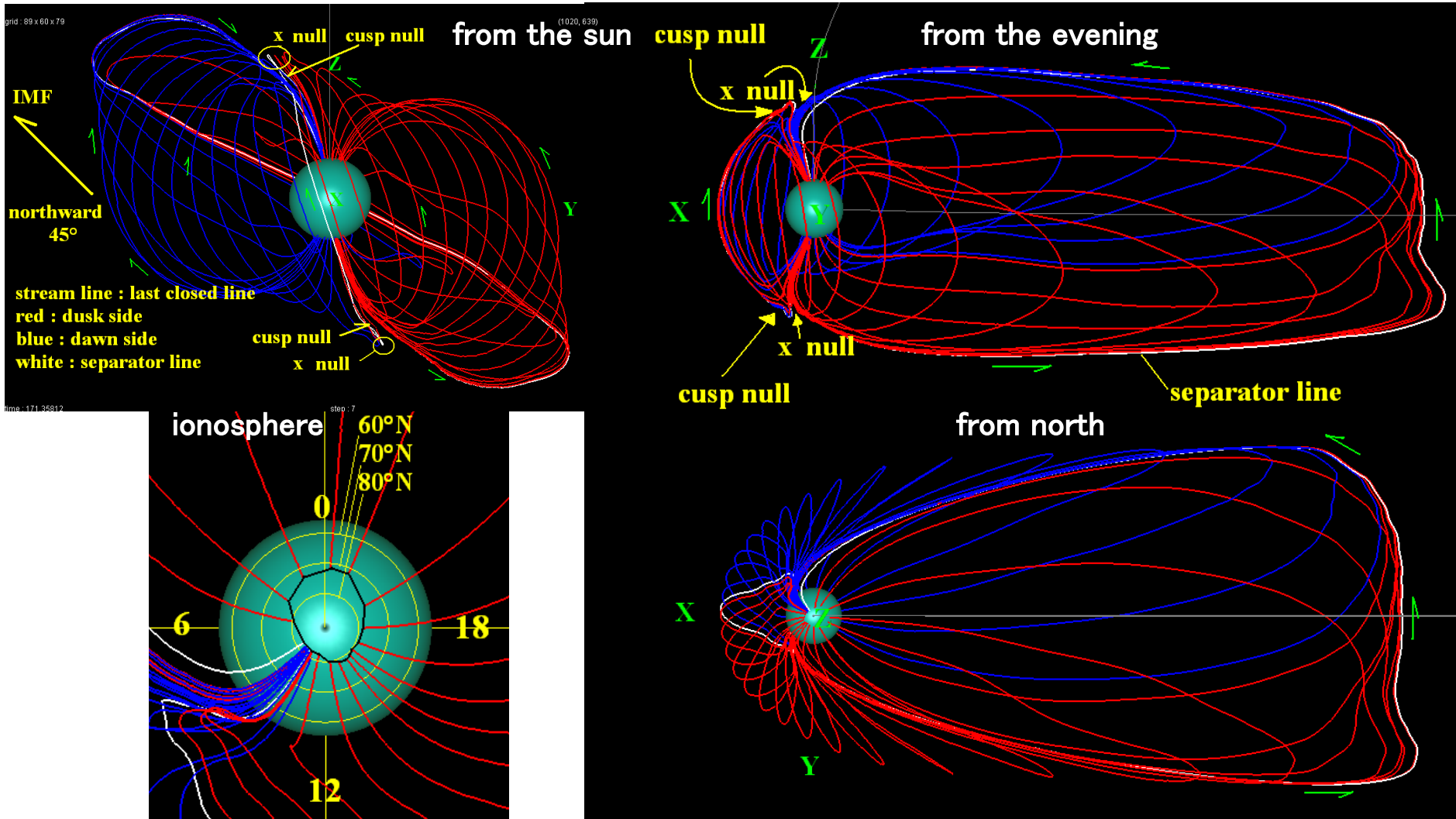
(red: evening last closed field, blue: morning, green: separator lines)



Northward IMF separatrix surface and separator line

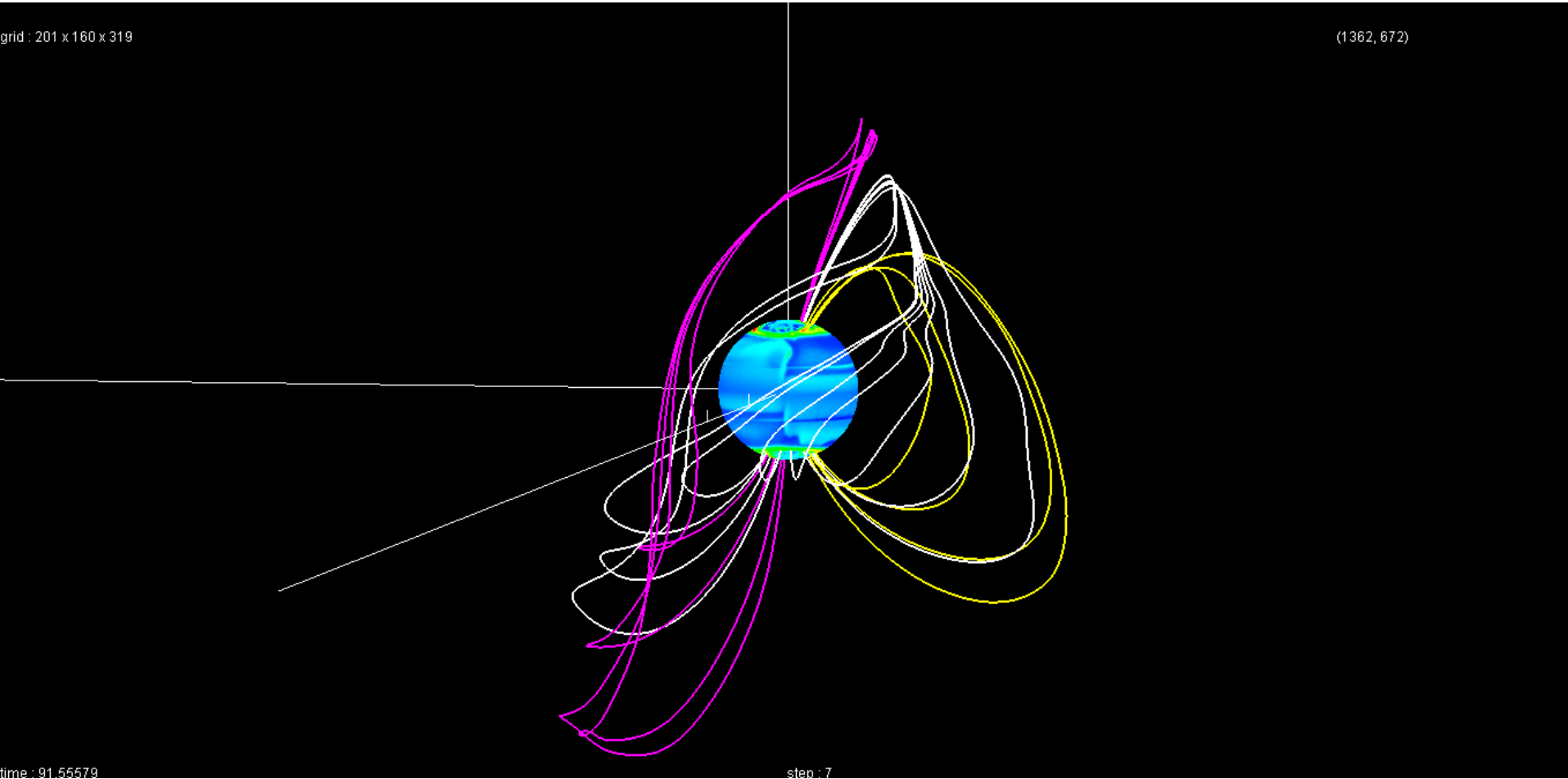
(last closed field lines = separatrix)

blue: morning side, red: evening side, white: separator lines



Magnetic field structure above the theta aurora

(red: dayside, white: old singular, yellow nightside)

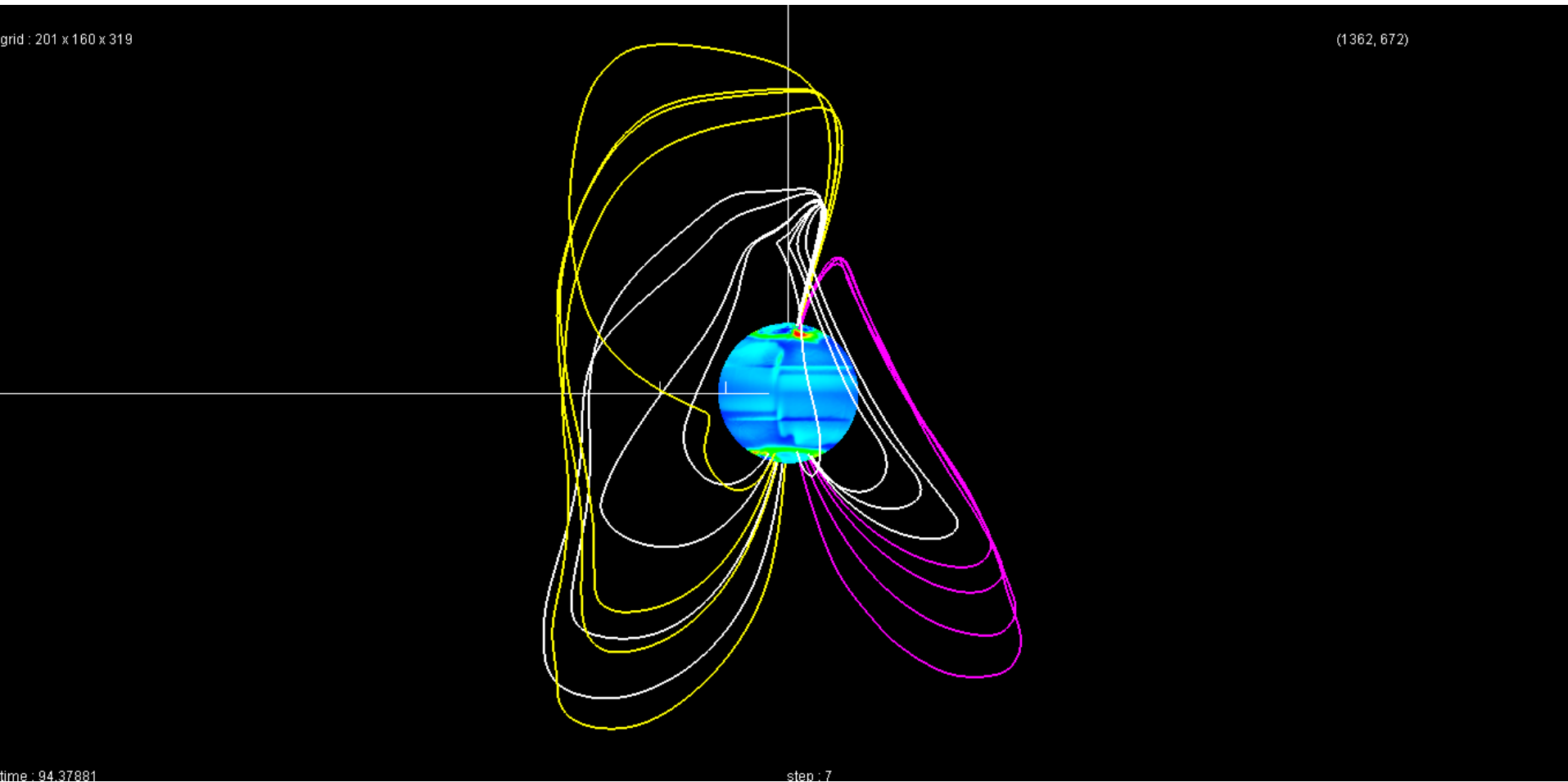


C:\login\Nict5\save1\data3i.s2

Null point, hist.10.s2.m212(new), m222(old)

Magnetic field structure above the theta aurora

(red: nightside, white: old singular, yellow: dayside)



C:\login\Nict5\save1\data3i.s3
Hist.10.s3.m311, 321

END