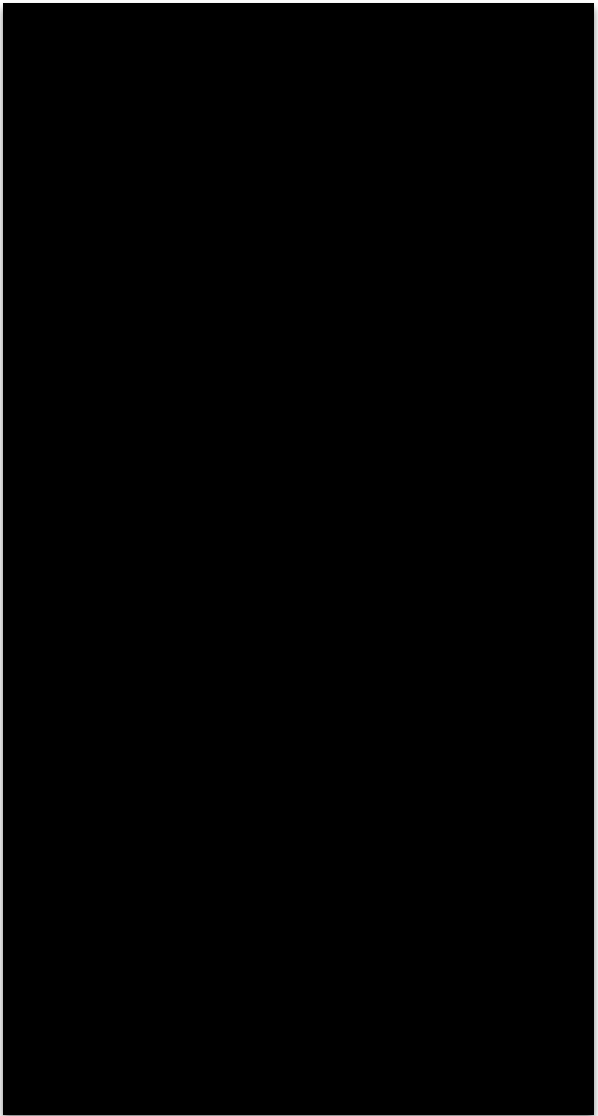
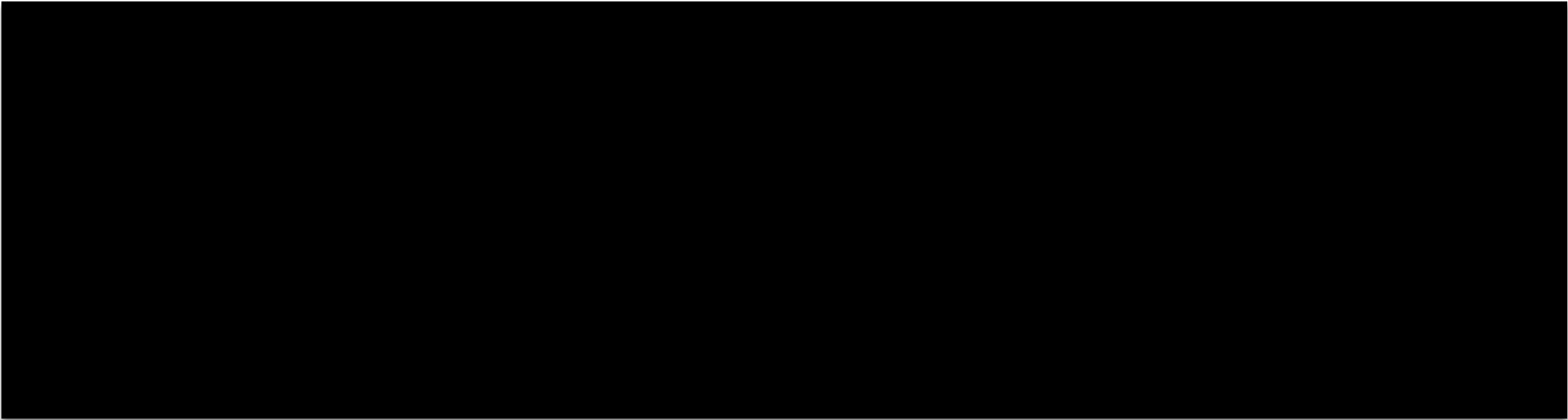


How to identify where recon has happened?



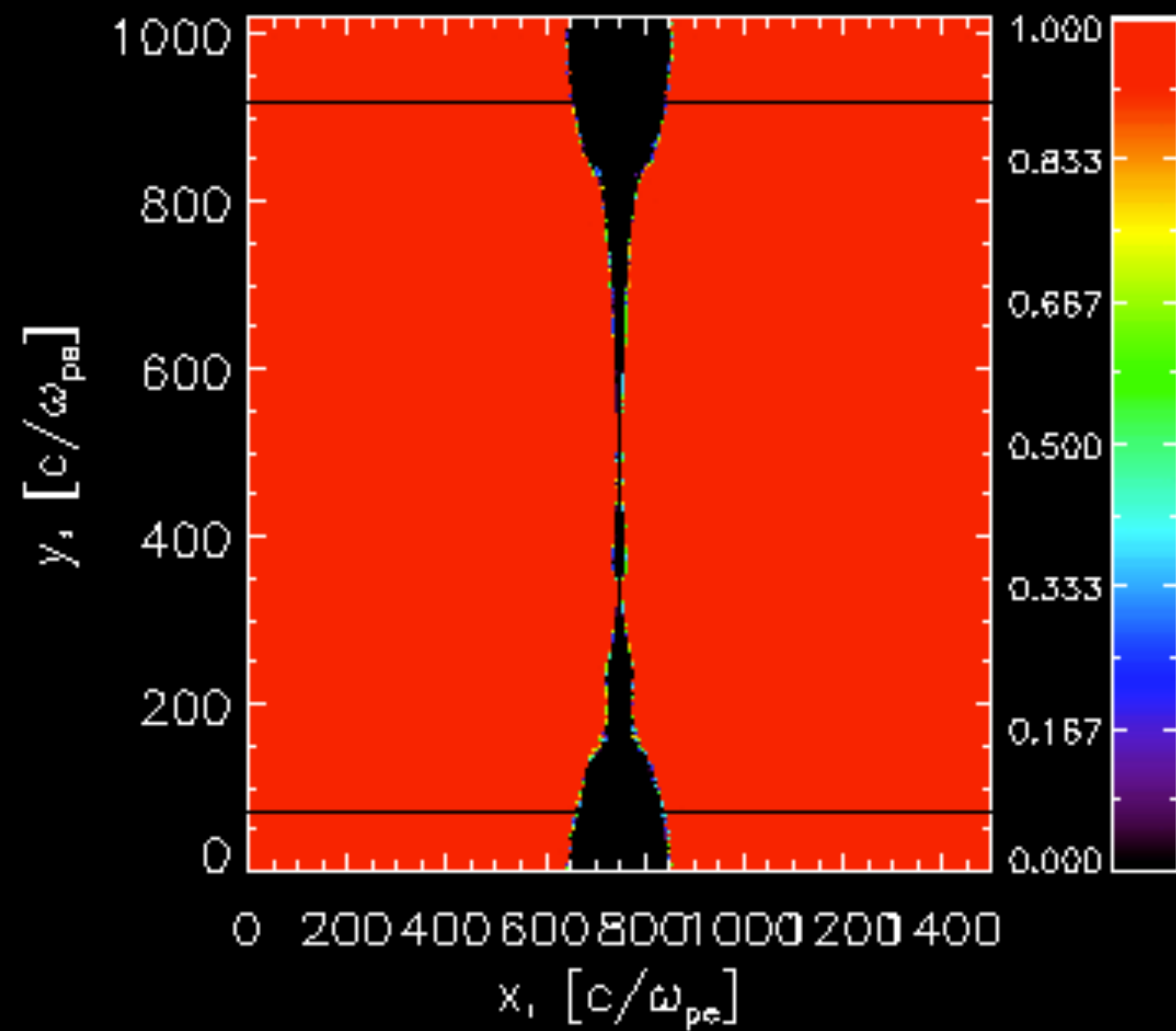
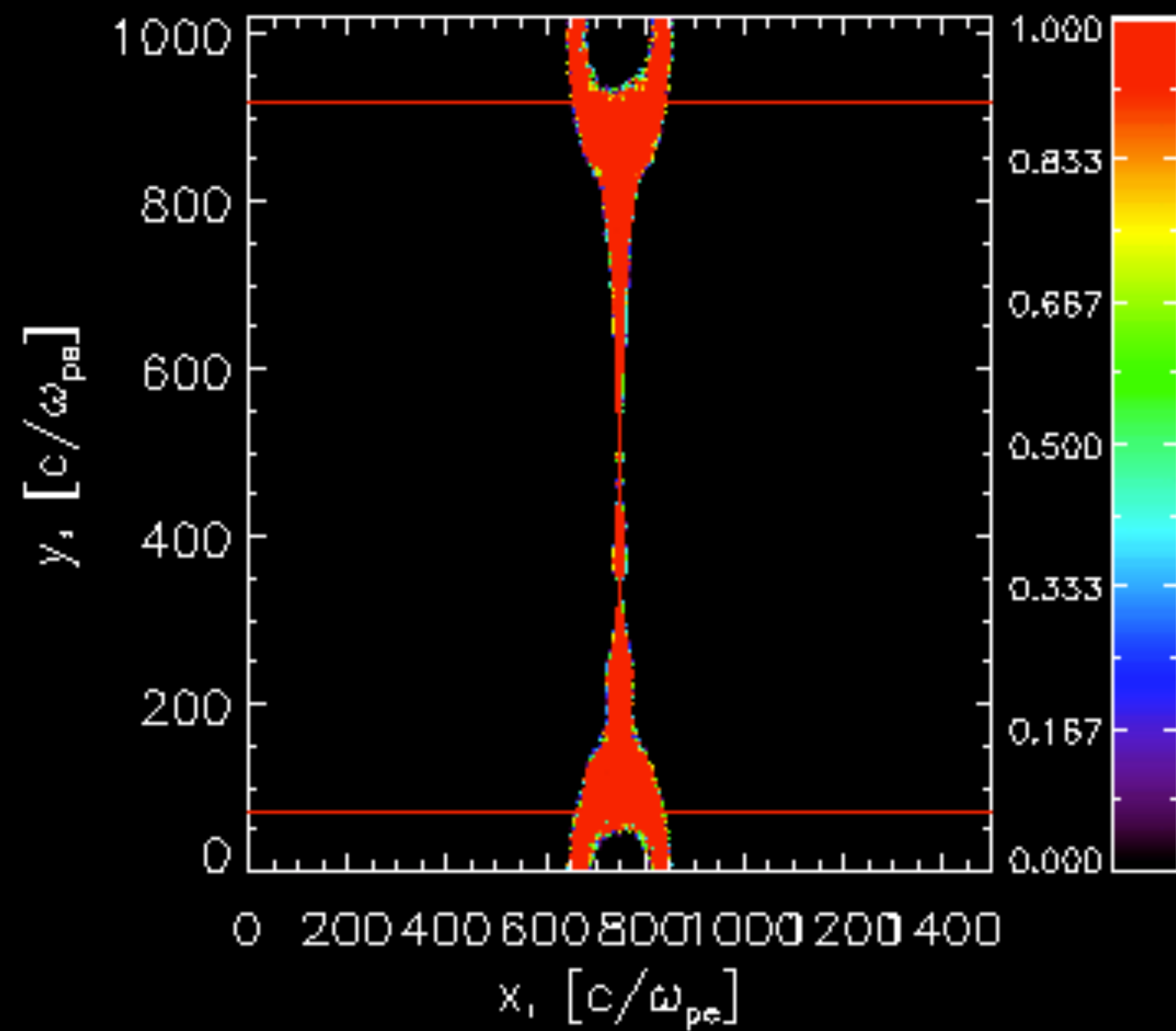
**Track tagged
particles;
measure
ratio of
tagged to
total density
in each cell**



**Tag particles
on right**

**If there is enough
mixing, count cell
as reconnected**

**Region
selected is
insensitive
to the
particular
threshold
value**



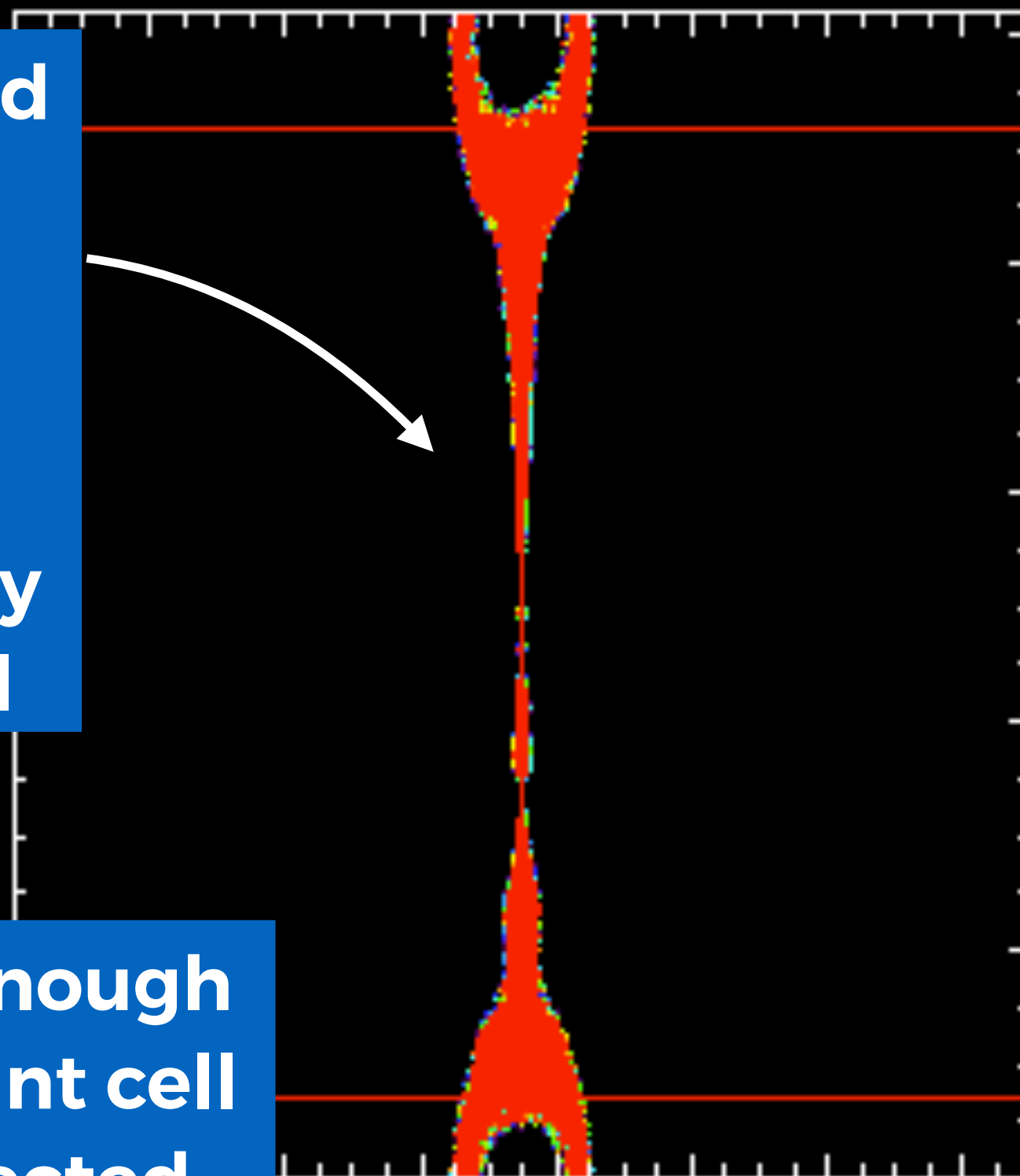
How to identify where reconnection has happened?

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This is a low-beta plasma...

- ▶ The circular substructures are 'magnetic islands'
- ▶ They form due to the tearing instability
- ▶ Islands heat particles by 'bouncing'

