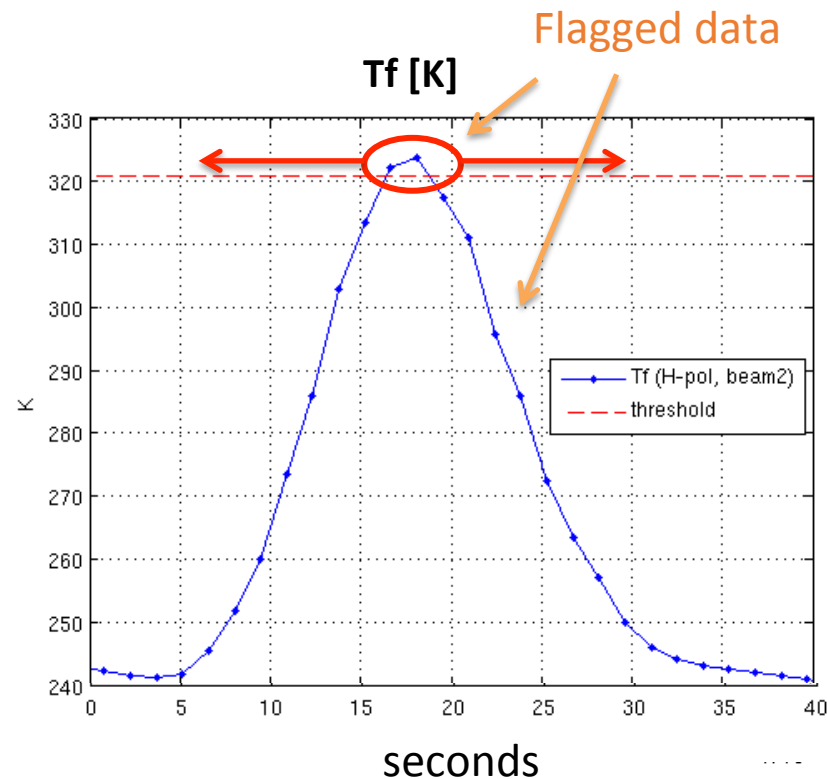


# RFI Flagging

Y. Soldo, P. de Matthaeis, D. Le Vine

# RFI flagging

- Some missed detections due to noise-like RFI
- Add RFI flag based on fixed thresholds
- Effective only over land; flag only; no data removed



# Definition of thresholds

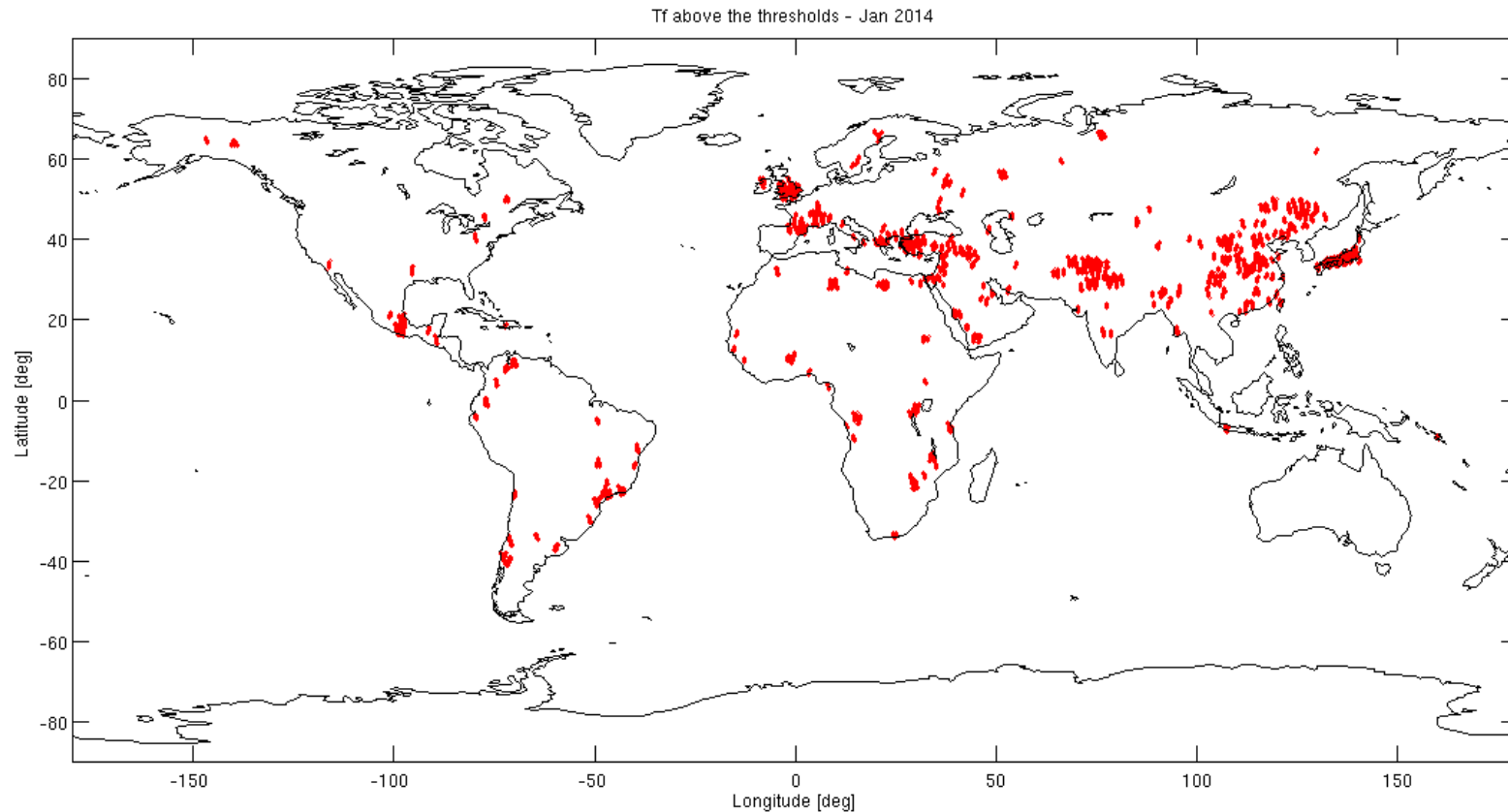
The thresholds are defined as the highest  $T_a$  we can expect from natural emissions:

- $SM = 0$
- $LST = 340\text{ K}$
- No vegetation
- No atmosphere

The resulting thresholds in  $T_a$  are:

|       | V     | H     |
|-------|-------|-------|
| beam1 | 339 K | 327 K |
| beam2 | 344 K | 321 K |
| beam3 | 350 K | 315 K |

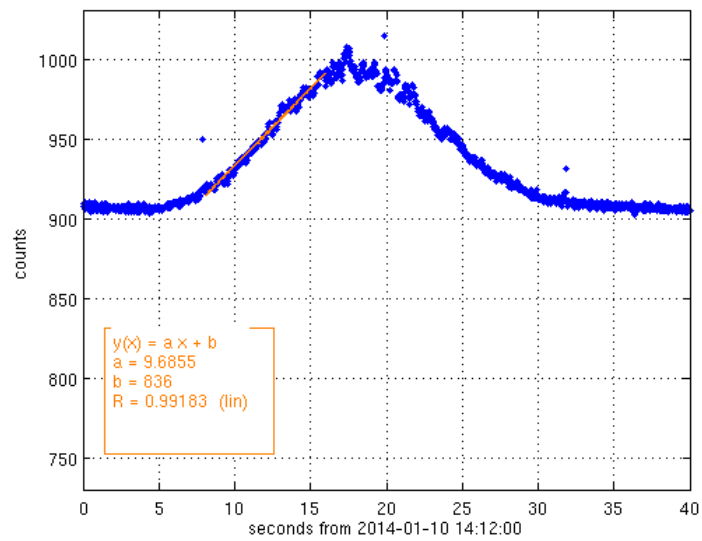
# Spatial distribution of the flags



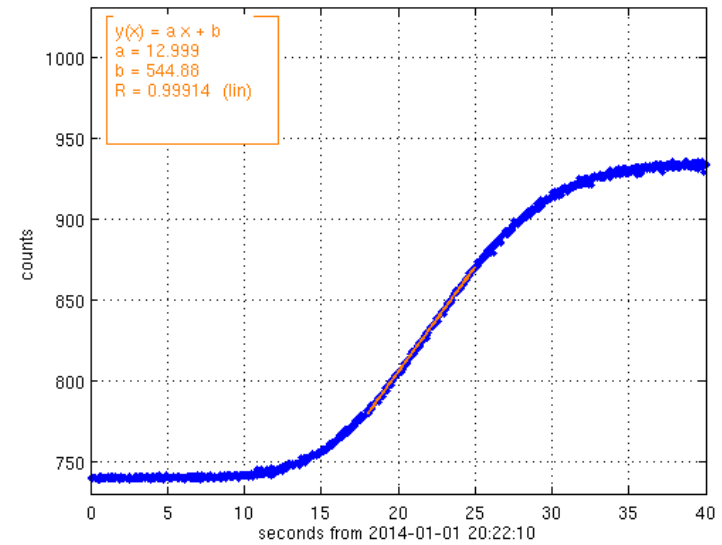
Bonus

# Motivation

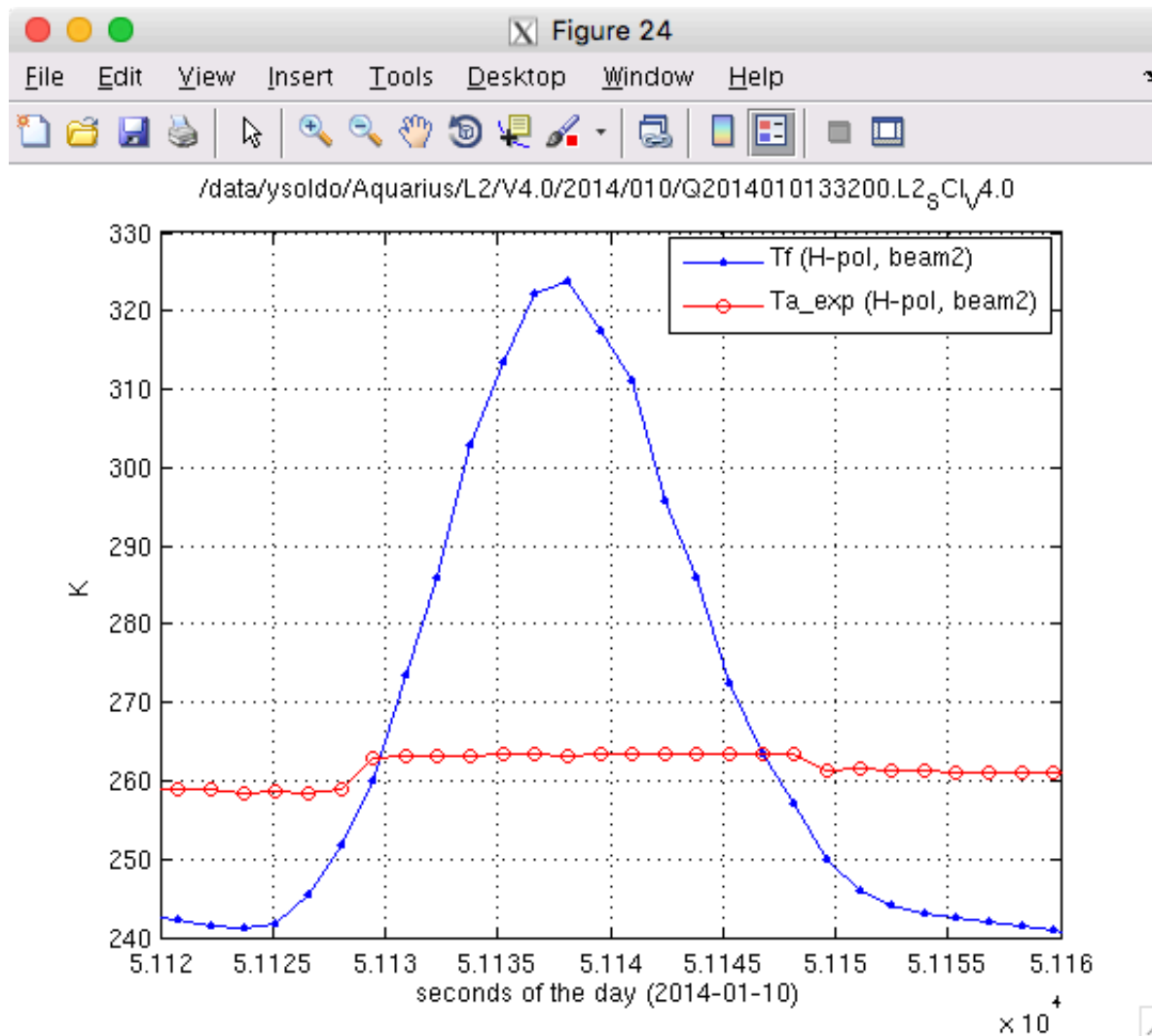
## Russian RFI



## Sea/Land transition



# Flag



# RFI flagging

- Some missed detections due to noise-like RFI
- Add RFI flag based on fixed thresholds
- Effective only over land; flag only; no data removed

