RFI Flagging

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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 Ta we can expect from natural emissions:

- SM = 0
- LST = 340 K
- No vegetation
- No atmosphere

The resulting thresholds in Ta are:

<table>
<thead>
<tr>
<th></th>
<th>V</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>beam1</td>
<td>339 K</td>
<td>327 K</td>
</tr>
<tr>
<td>beam2</td>
<td>344 K</td>
<td>321 K</td>
</tr>
<tr>
<td>beam3</td>
<td>350 K</td>
<td>315 K</td>
</tr>
</tbody>
</table>
Spatial distribution of the flags
Bonus
Motivation

Russian RFI

Sea/Land transition

\[ y(x) = ax + b \]
\[ a = 9.3625 \]
\[ b = 836 \]
\[ R = 0.99163 \] (lin)
Flag
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