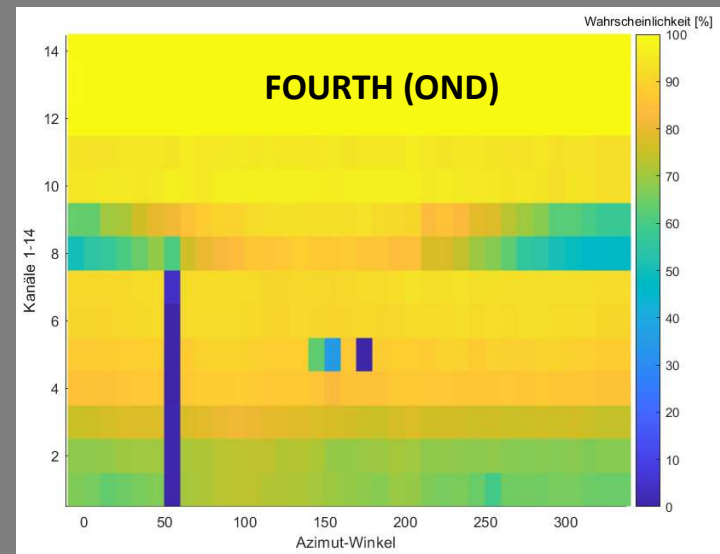
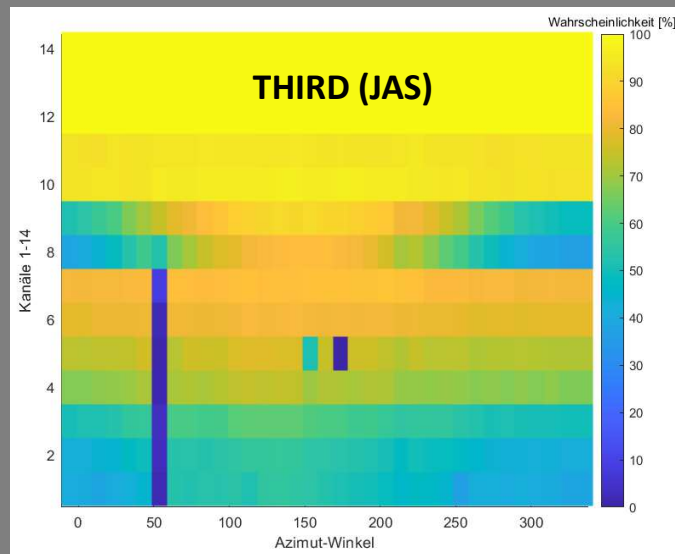
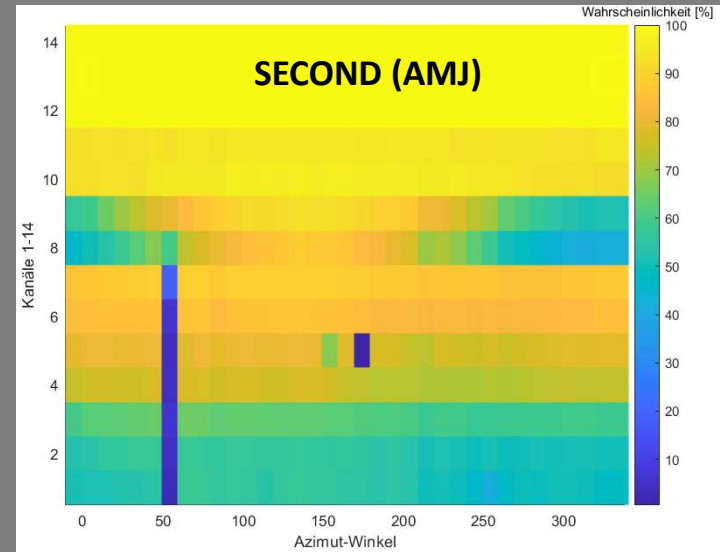
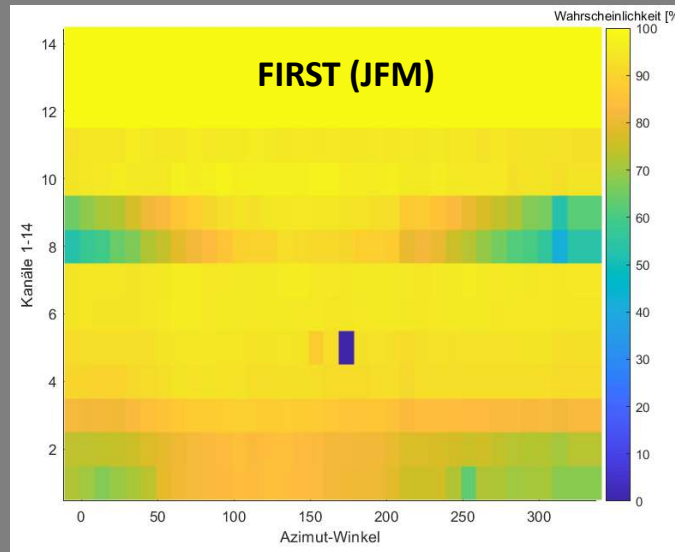


## Hatpro scans

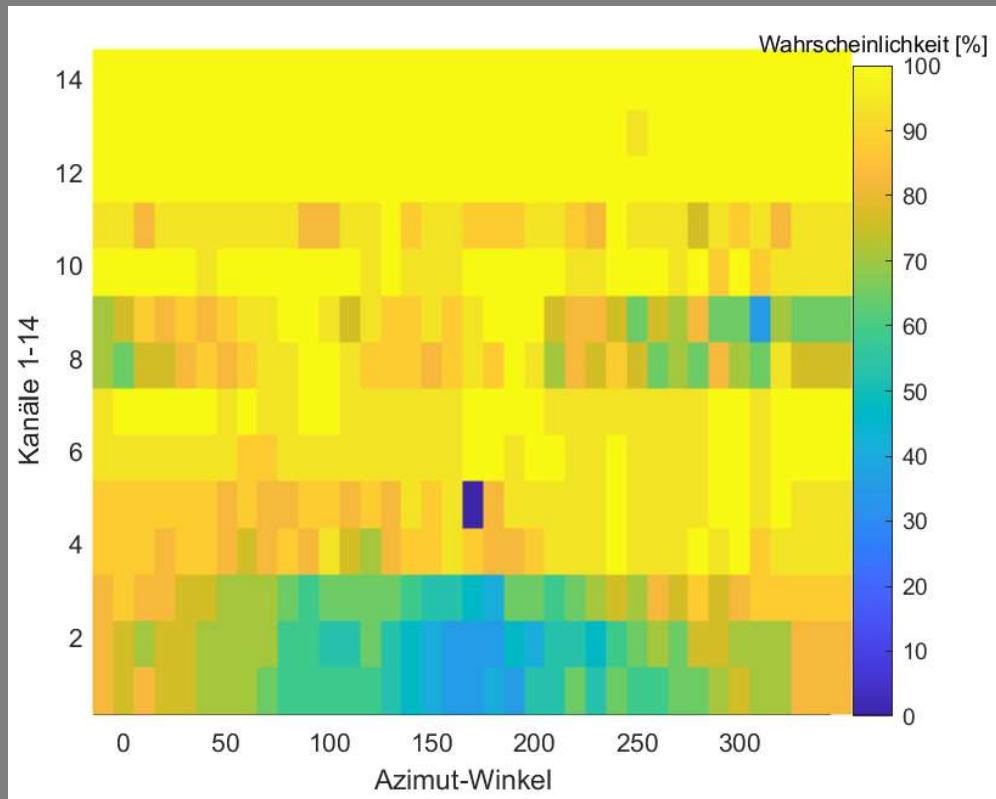
- Searching for disturbances in tophat scan (30° elevation angle)
- Flitering for clearsky
  - Checking if the mean (LWP) of the 120-second intervals before and after the scan is below 10 g/m<sup>2</sup>
- Calculating  $measurement(azi) - min(scan)$  for each azimuth of each channel
- In what percentage of cases is the difference less than 1K?
  - *High percentage* → *no disturbance*
  - *Low percentage* → *maybe disturbance*

# Seasonal Comparison 2019

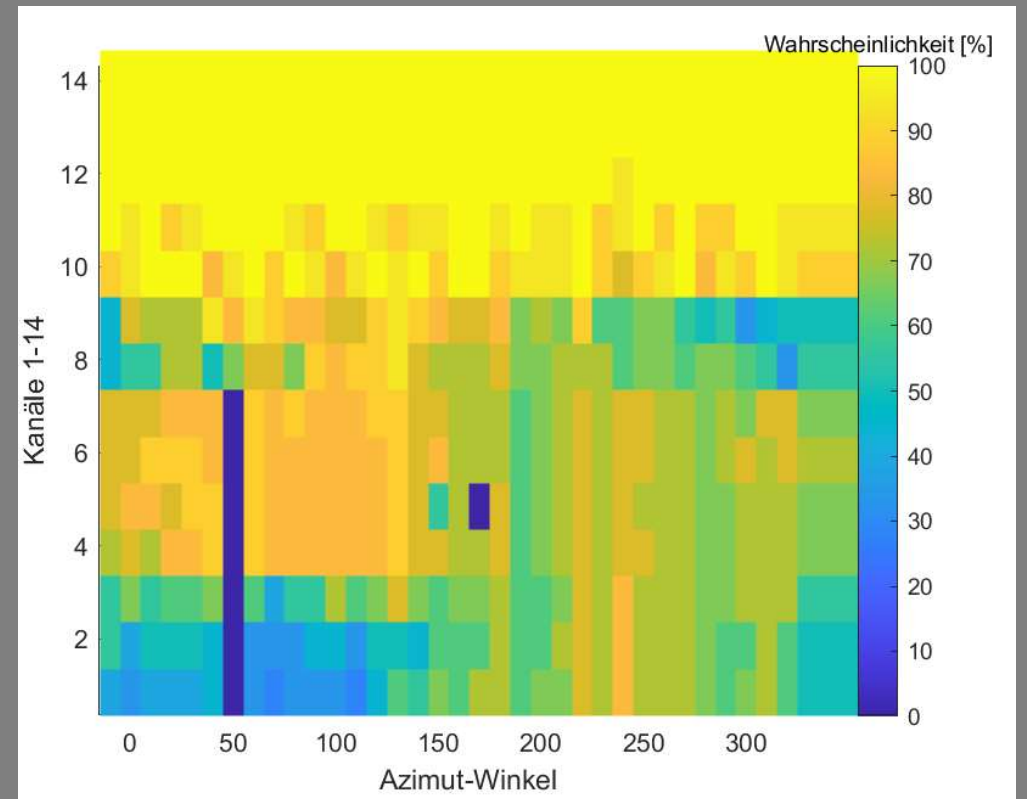


# Lightning Rod

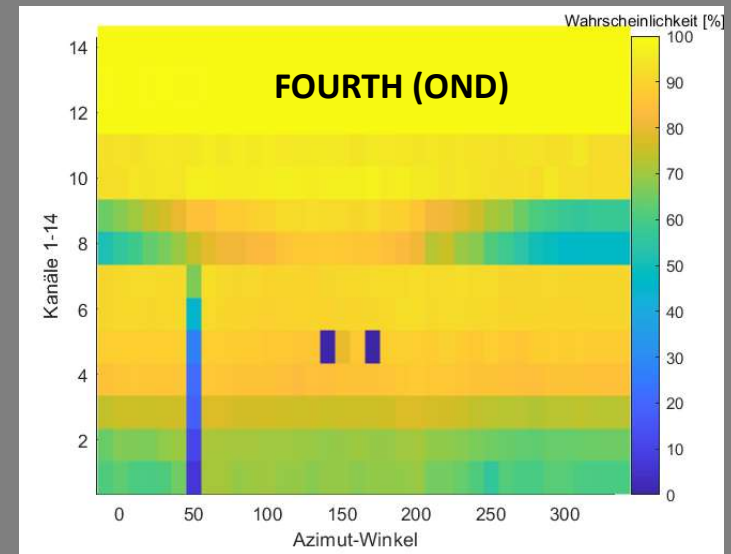
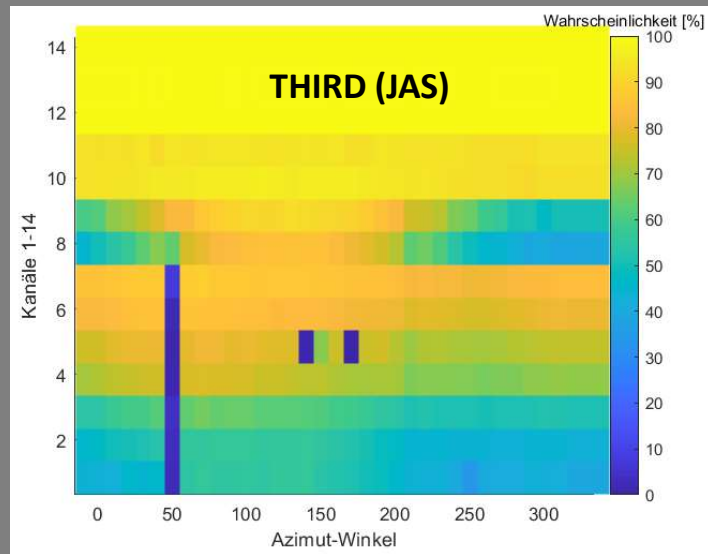
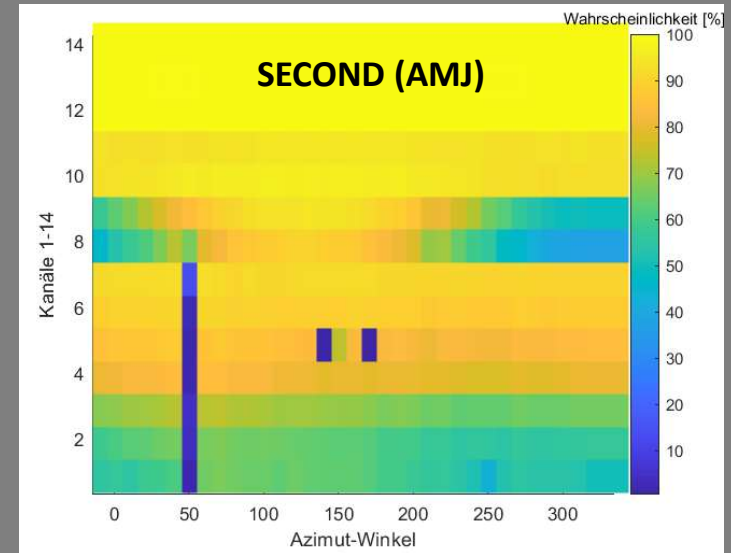
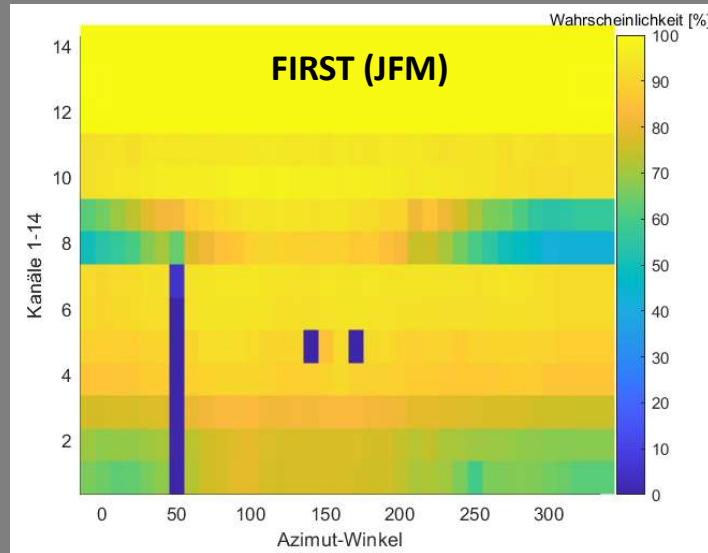
02.04.2019



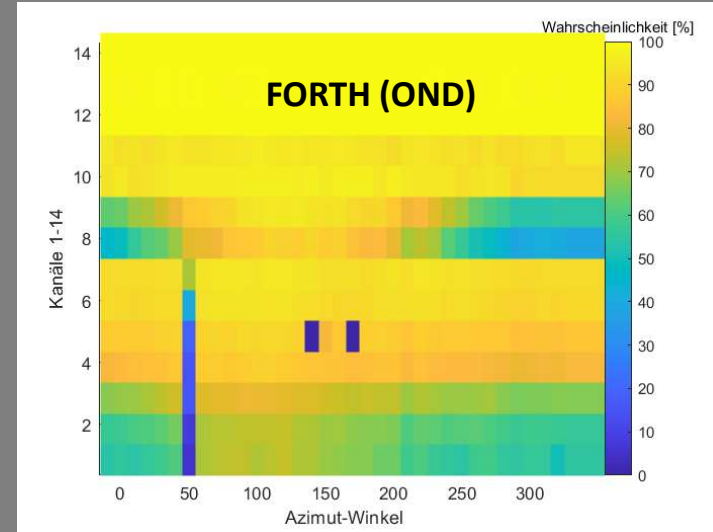
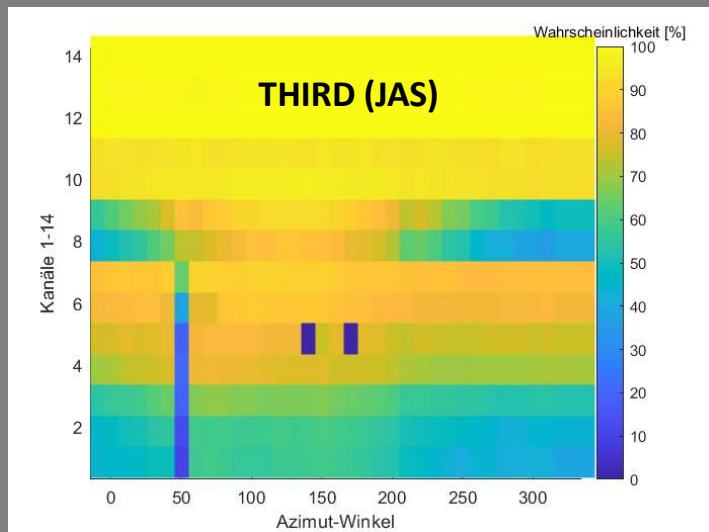
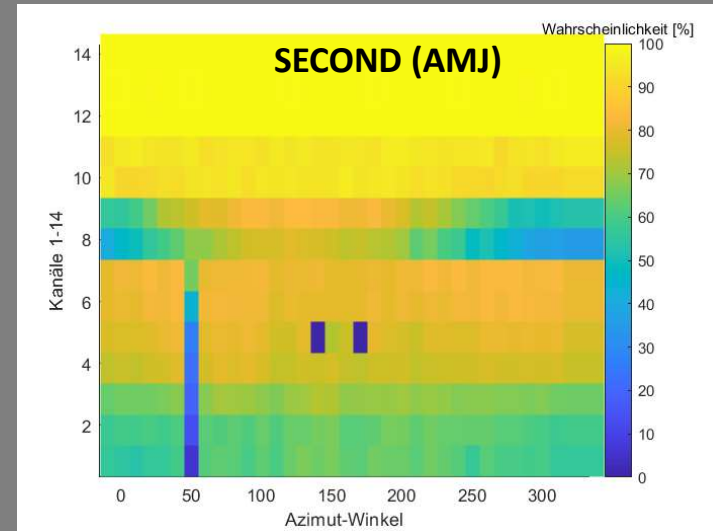
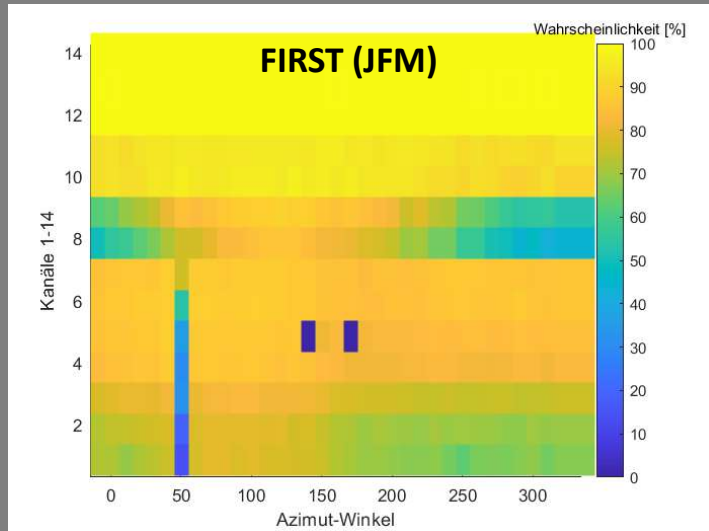
03.04.2019



# Seasonal Comparison 2020



# Seasonal Comparison 2021

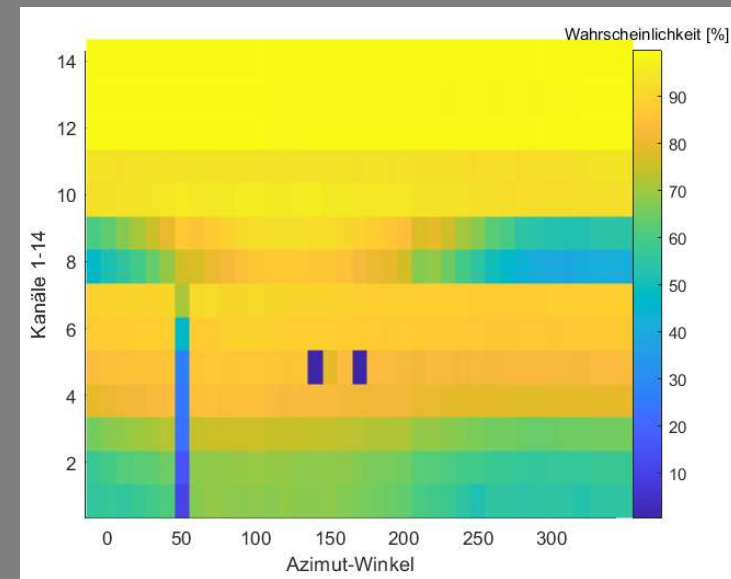
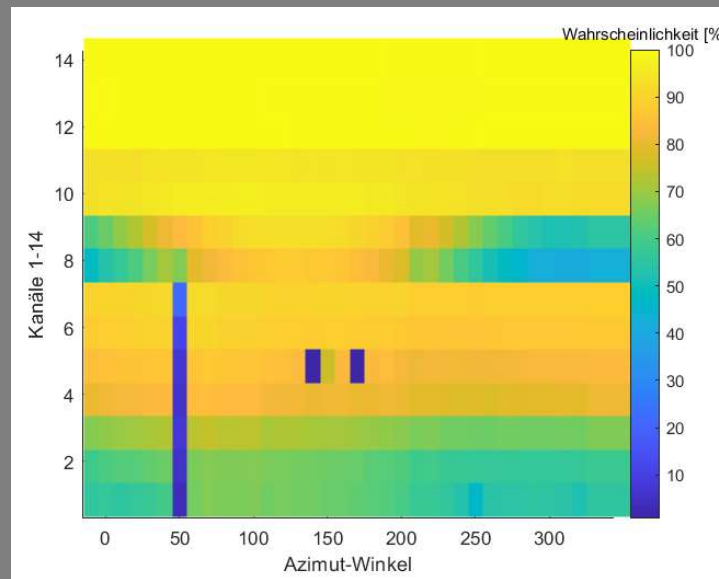
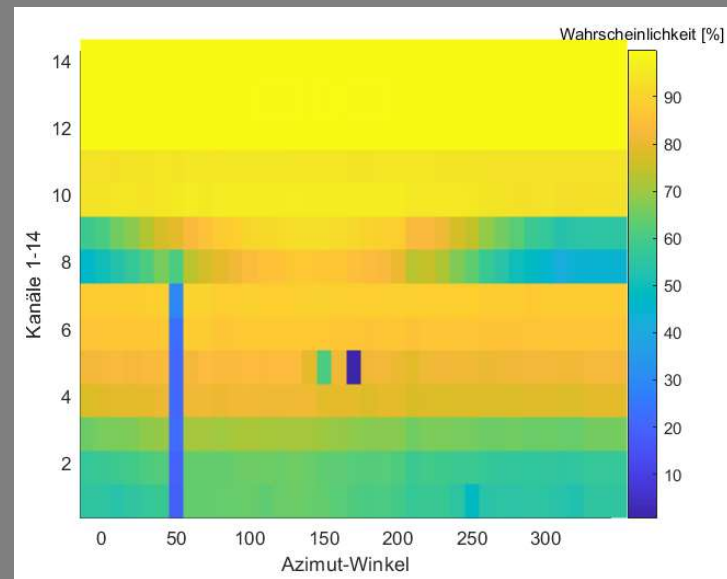


# Yearly Comparison

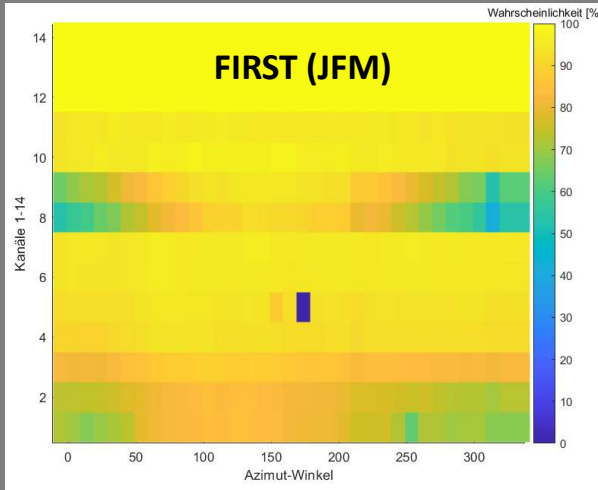
2019

2020

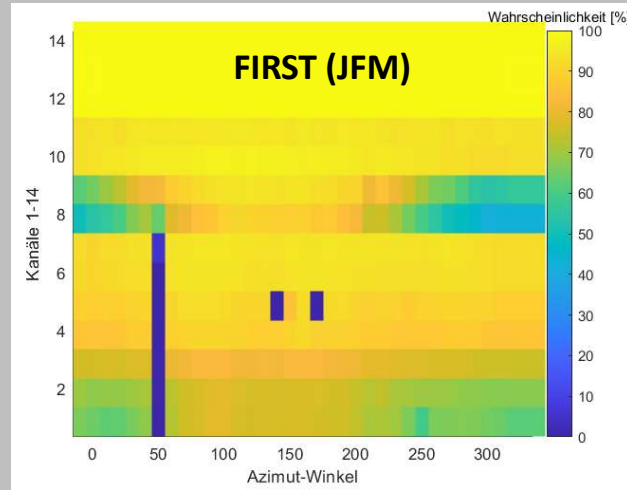
2021



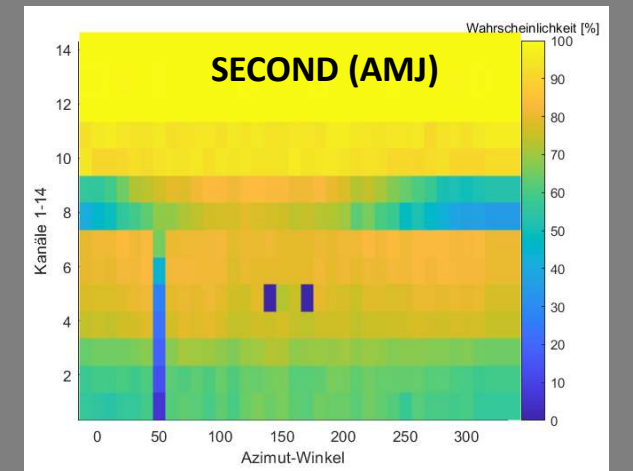
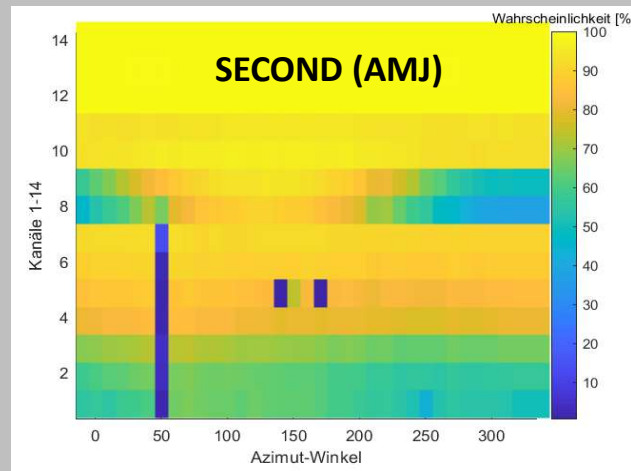
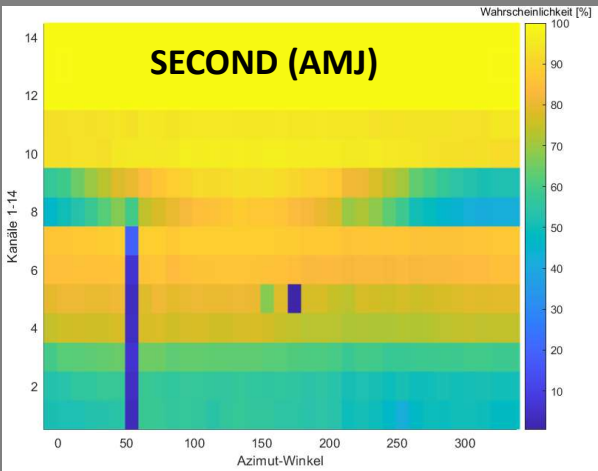
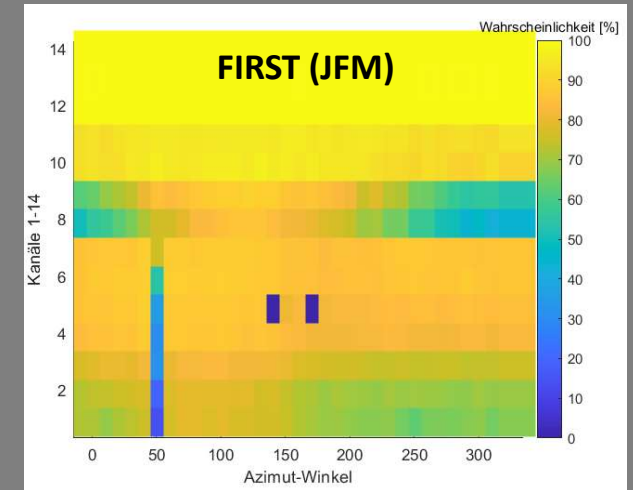
# 2019



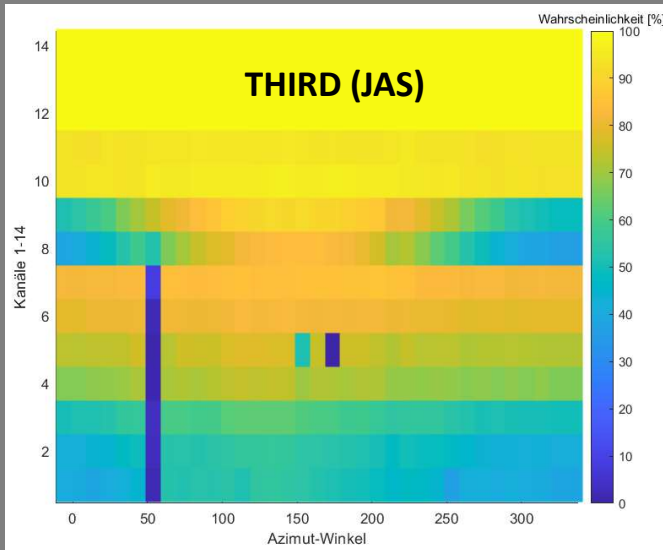
# 2020



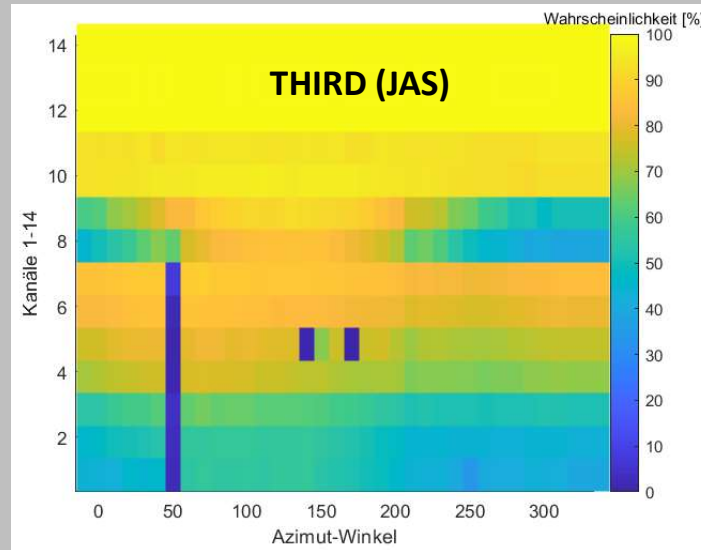
# 2021



# 2019



# 2020



# 2021

