

# QC Tests on trajectory files

1. Platform identification
2. Impossible date
3. Impossible location
4. Position on land
5. Impossible speed
  - For Argos, use test 20: Questionable Argos position
6. Global range (test on PARAM)

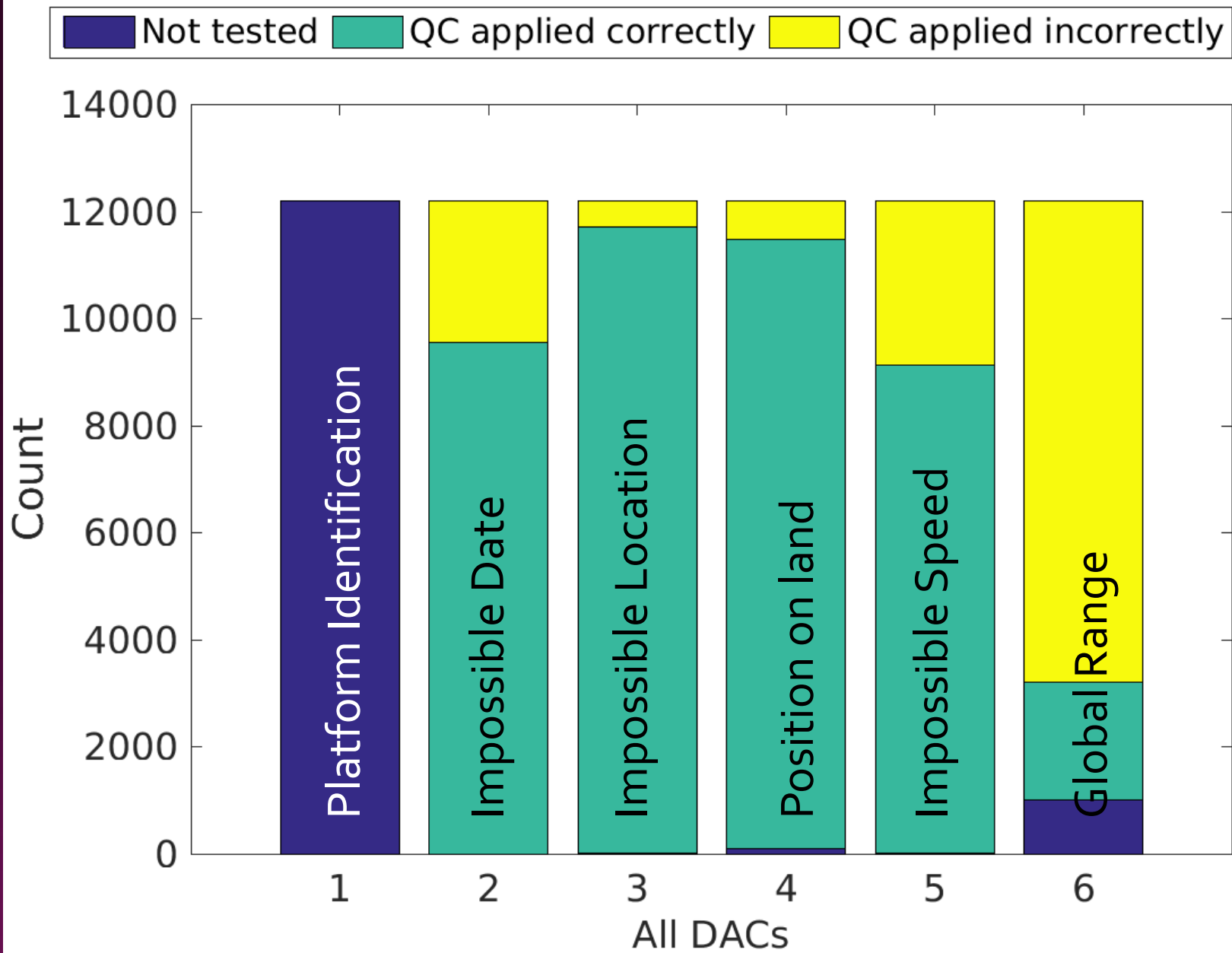
# What isn't covered

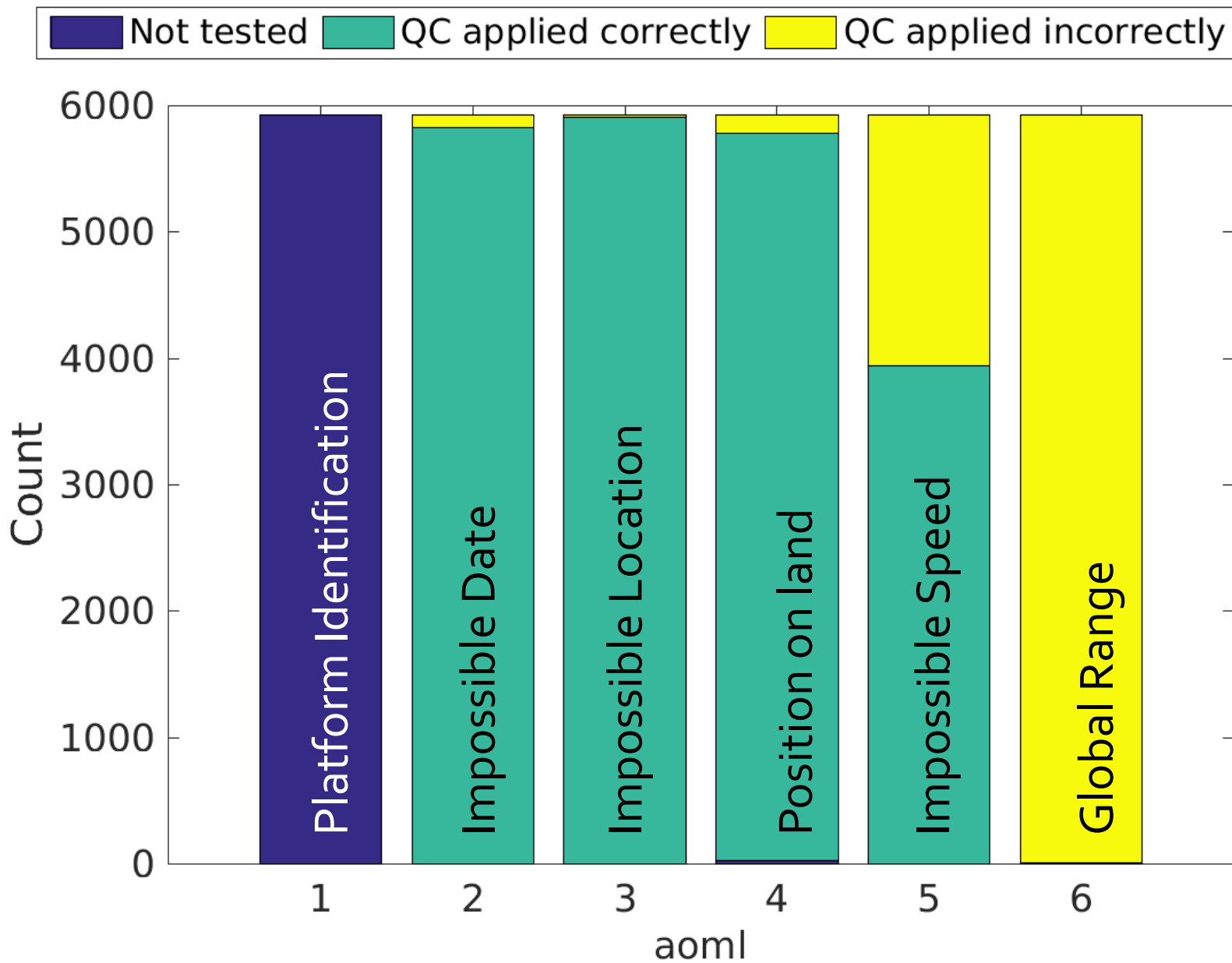
- Missing variables.
  - JULD, JULD\_QC
  - LATITUDE, LONGITUDE, POSITION\_QC, POSITION\_ACCURACY, CYCLE\_NUMBER
  - **PRES, PRES\_QC, TEMP, TEMP\_QC, PRES\_ADJUSTED, TEMP\_ADJUSTED**
  - **JULD\_ADJUSTED, JULD\_ADJUSTED\_QC**
- Missing files
- Positions outside the bathymetry file range
- Details on why a test was incorrect/correct in a file

# What was done?

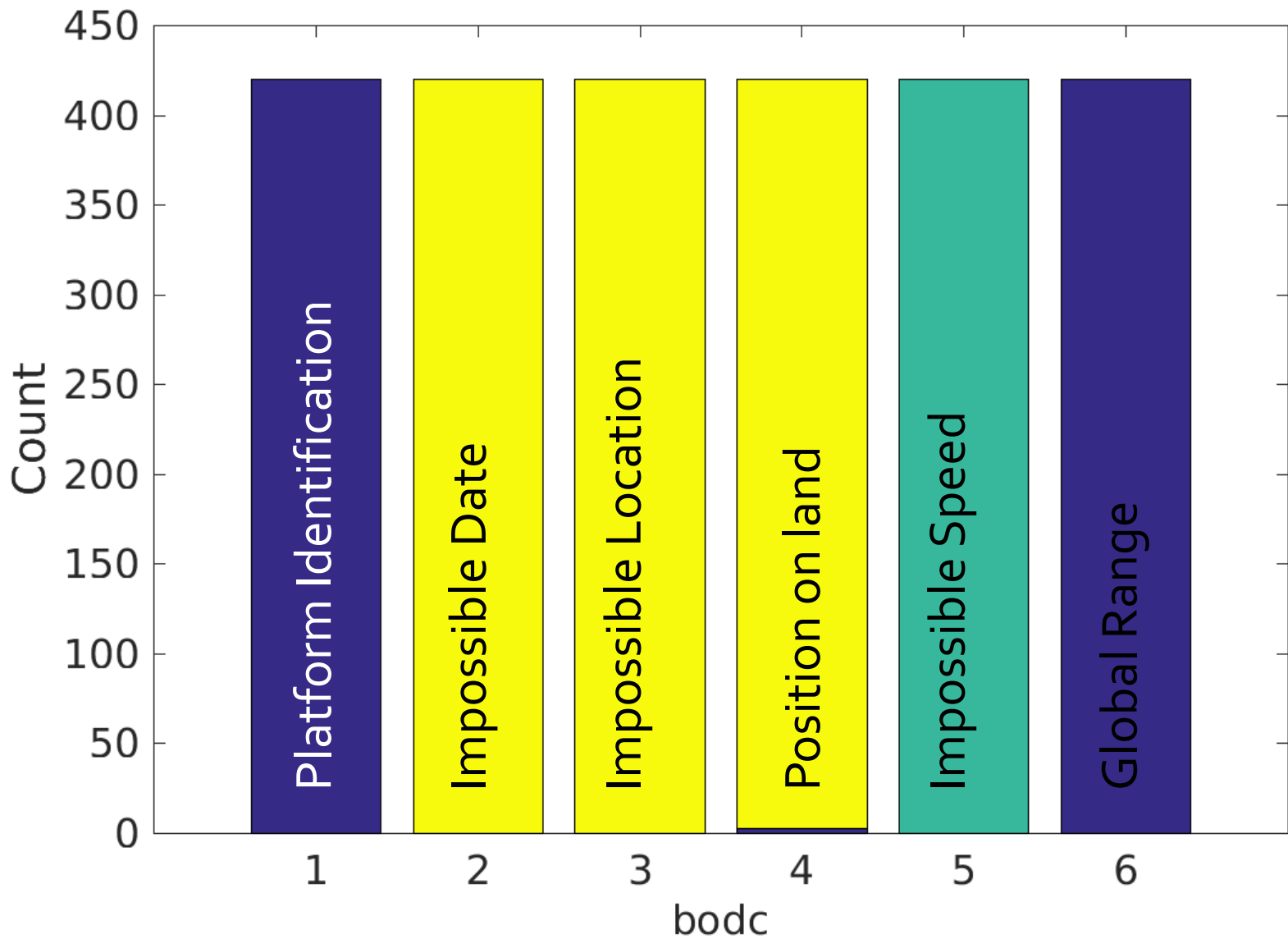
- Read from every trajectory file
- Perform each test on the data
- Decide on the QC flag:
  - Eg
    - Pass, QC = 1
    - Fail, QC = 4
- Compare the QC flag with what is in the file

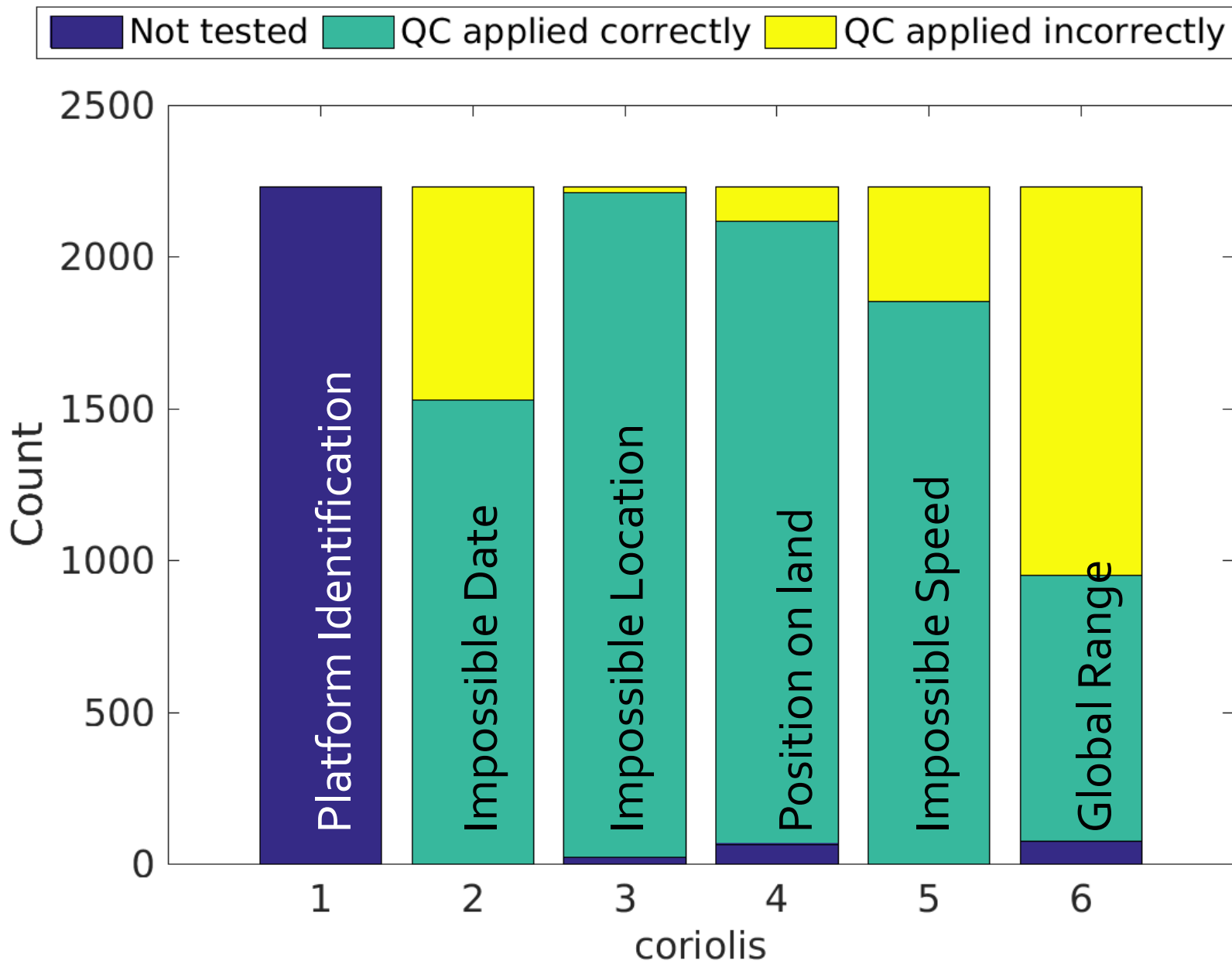
 Not tested  QC applied correctly  QC applied incorrectly



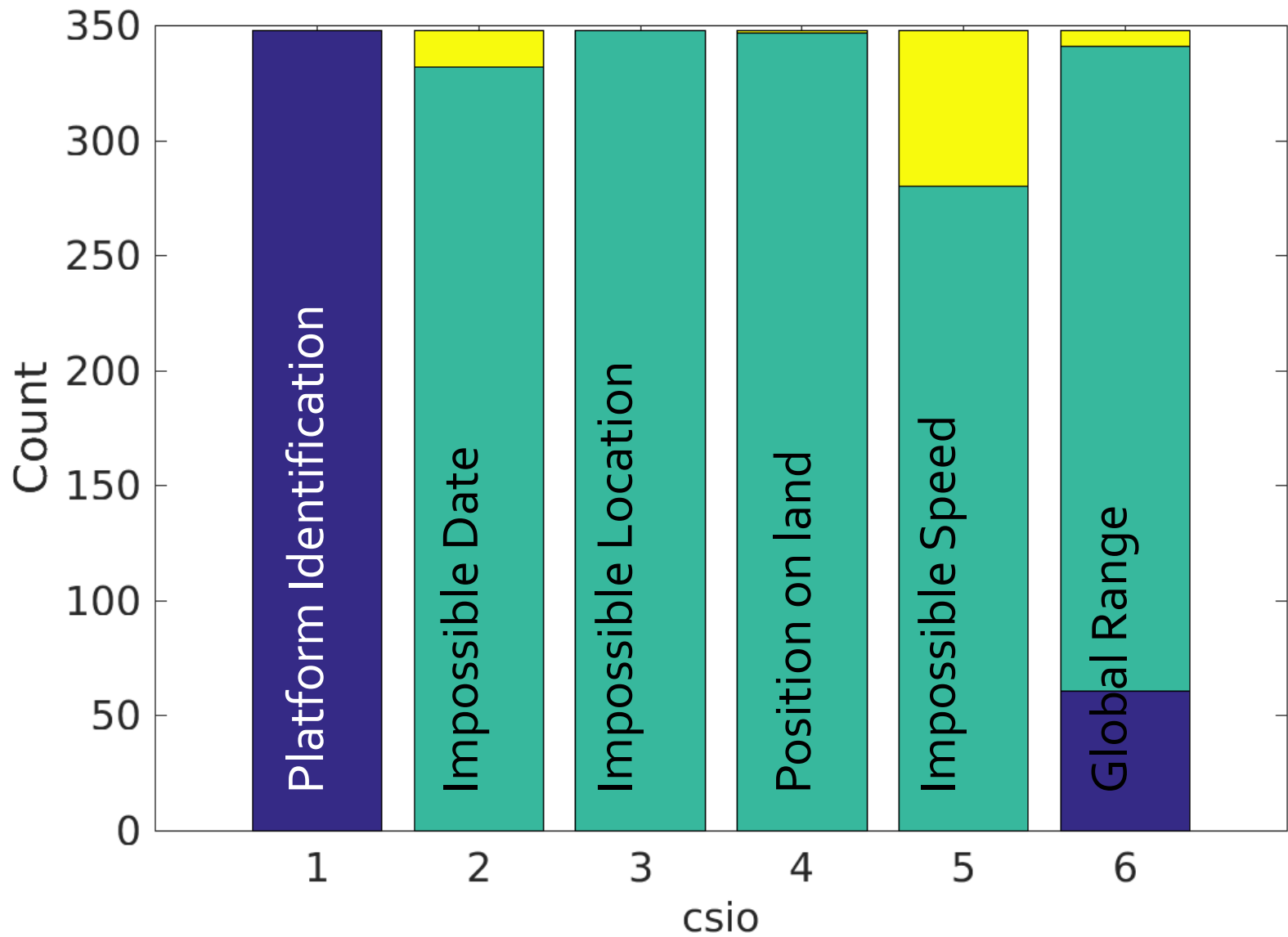


Not tested QC applied correctly QC applied incorrectly



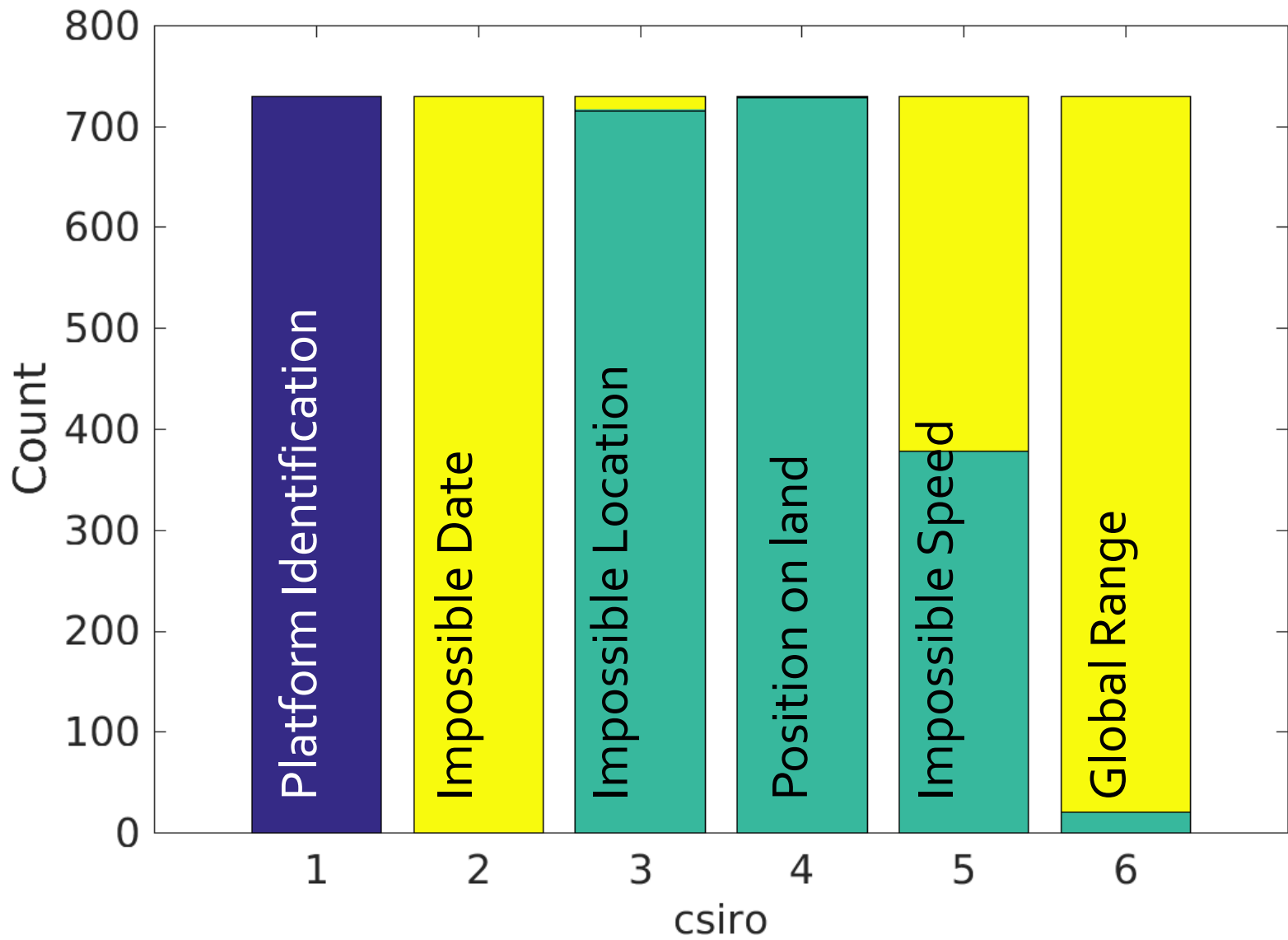


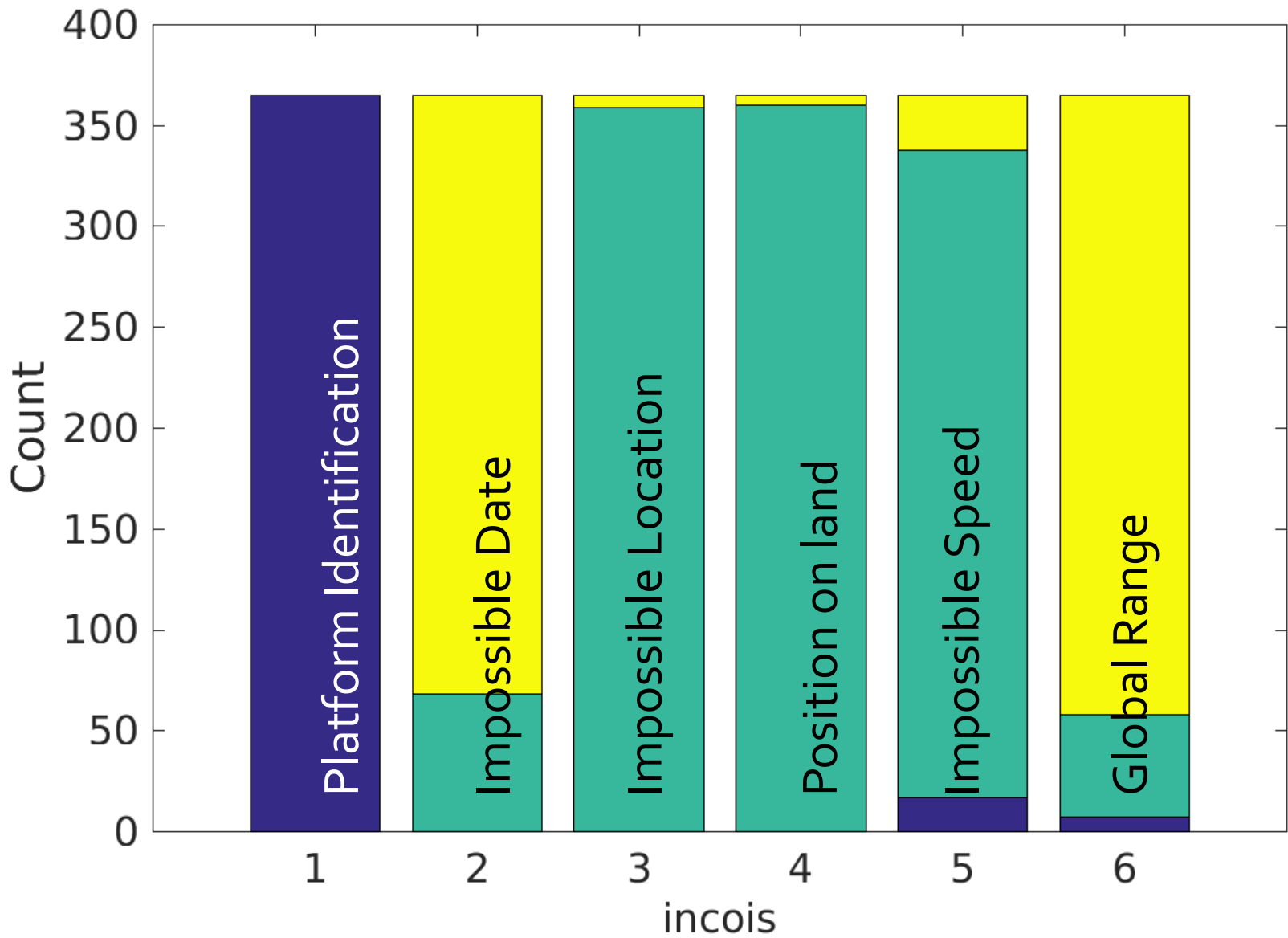
Not tested QC applied correctly QC applied incorrectly



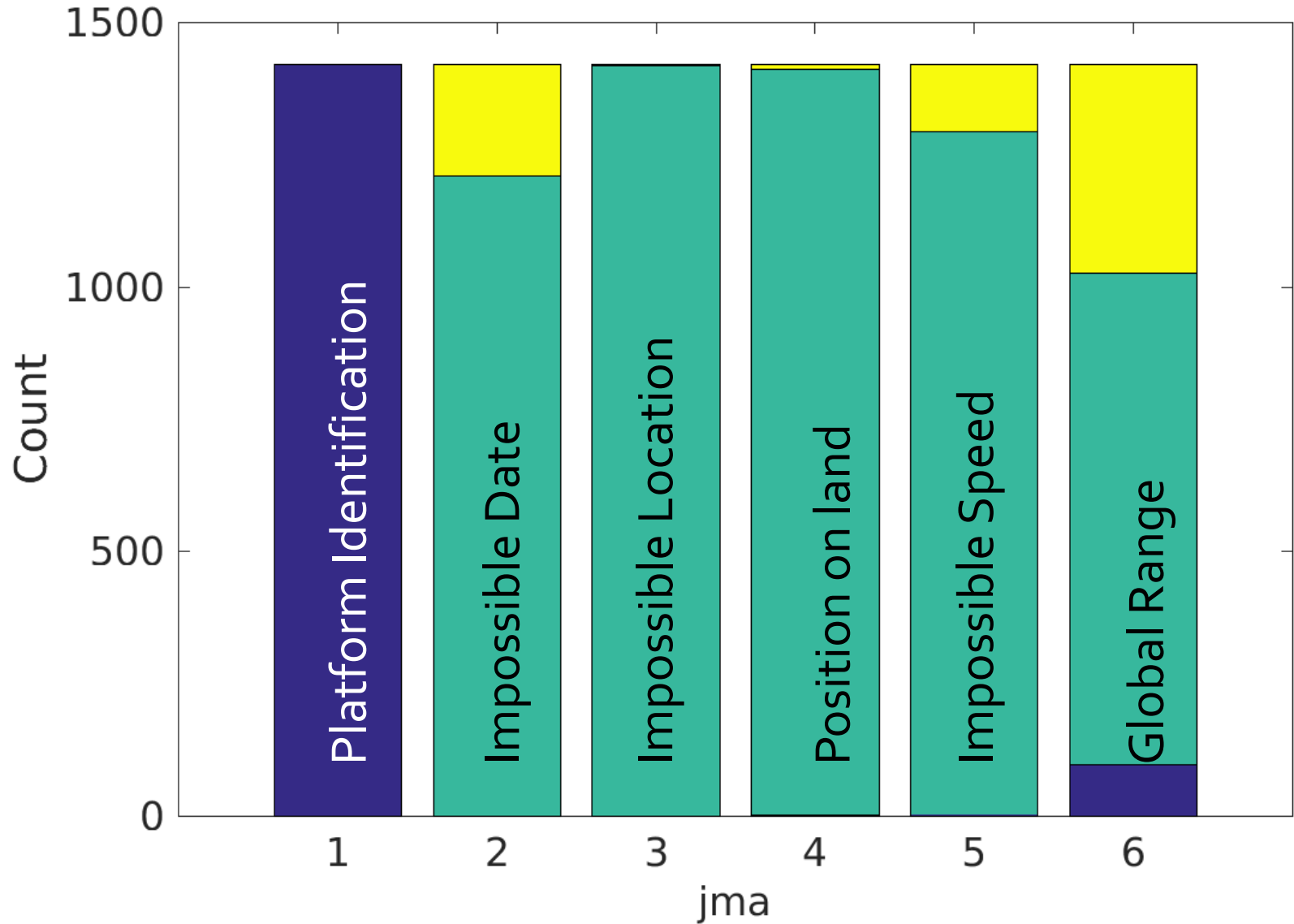


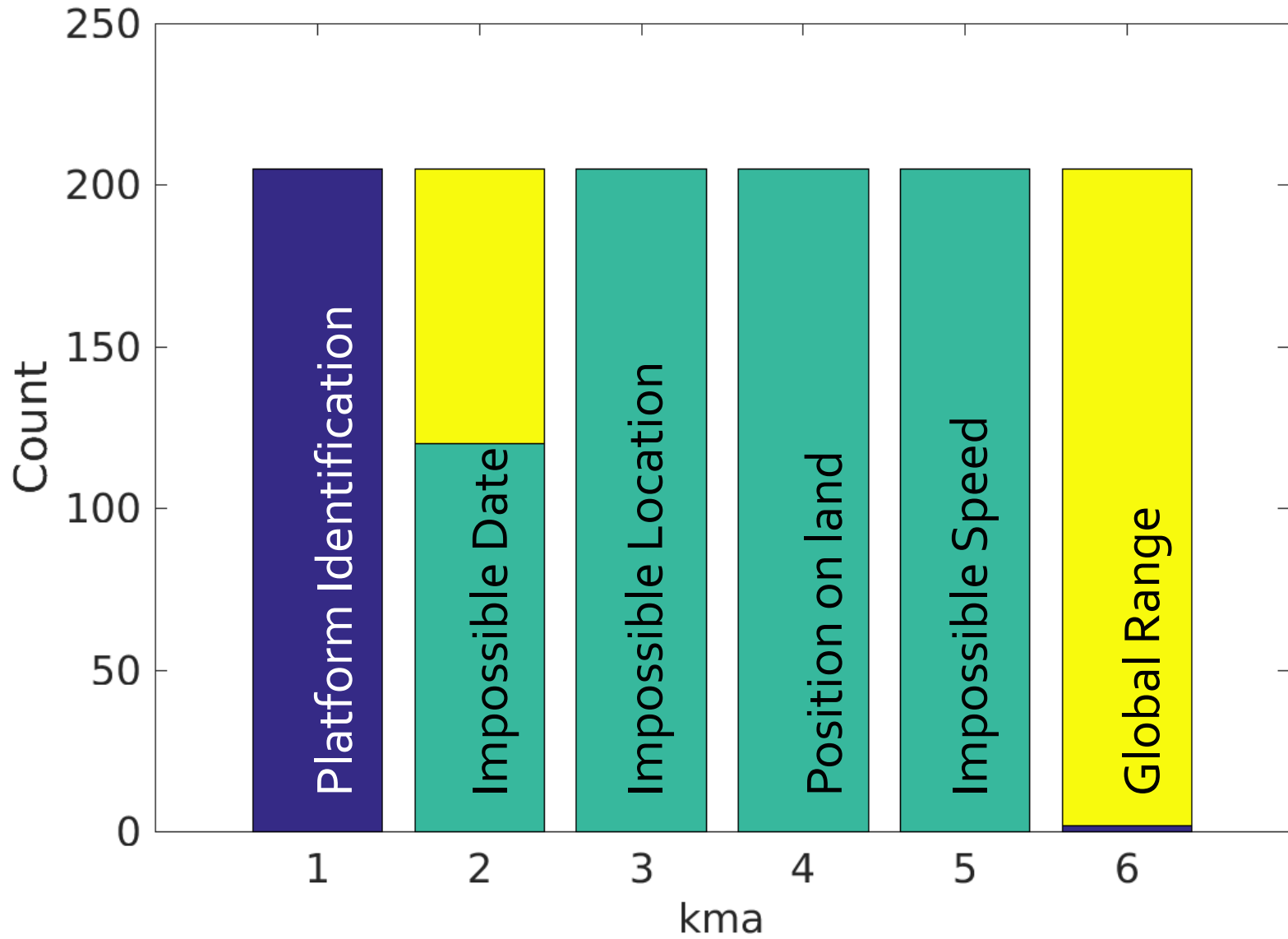
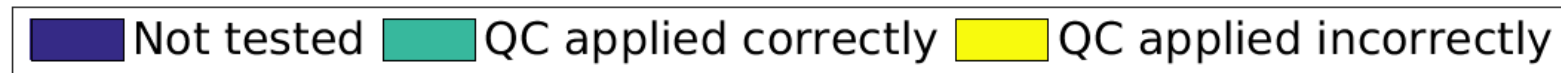
Not tested QC applied correctly QC applied incorrectly

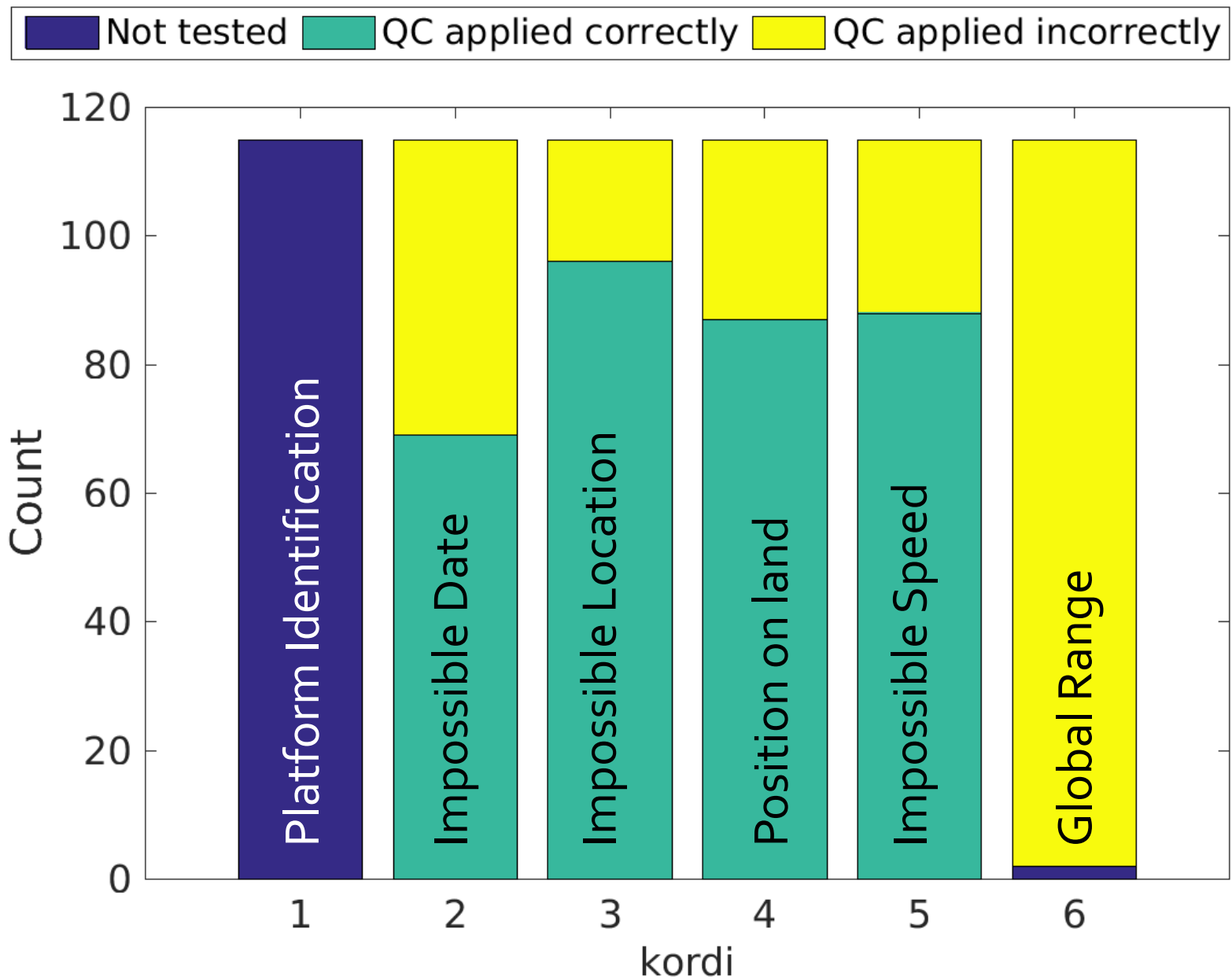




Not tested    QC applied correctly    QC applied incorrectly







Can the real time testing of GPS positions be improved?

How to translate information from profile files to trajectory files:

ie, grey listed floats, pressure or salinity adjustments in real time