

# **SQWG Dead-and-Bad Pixel Mask improvements**

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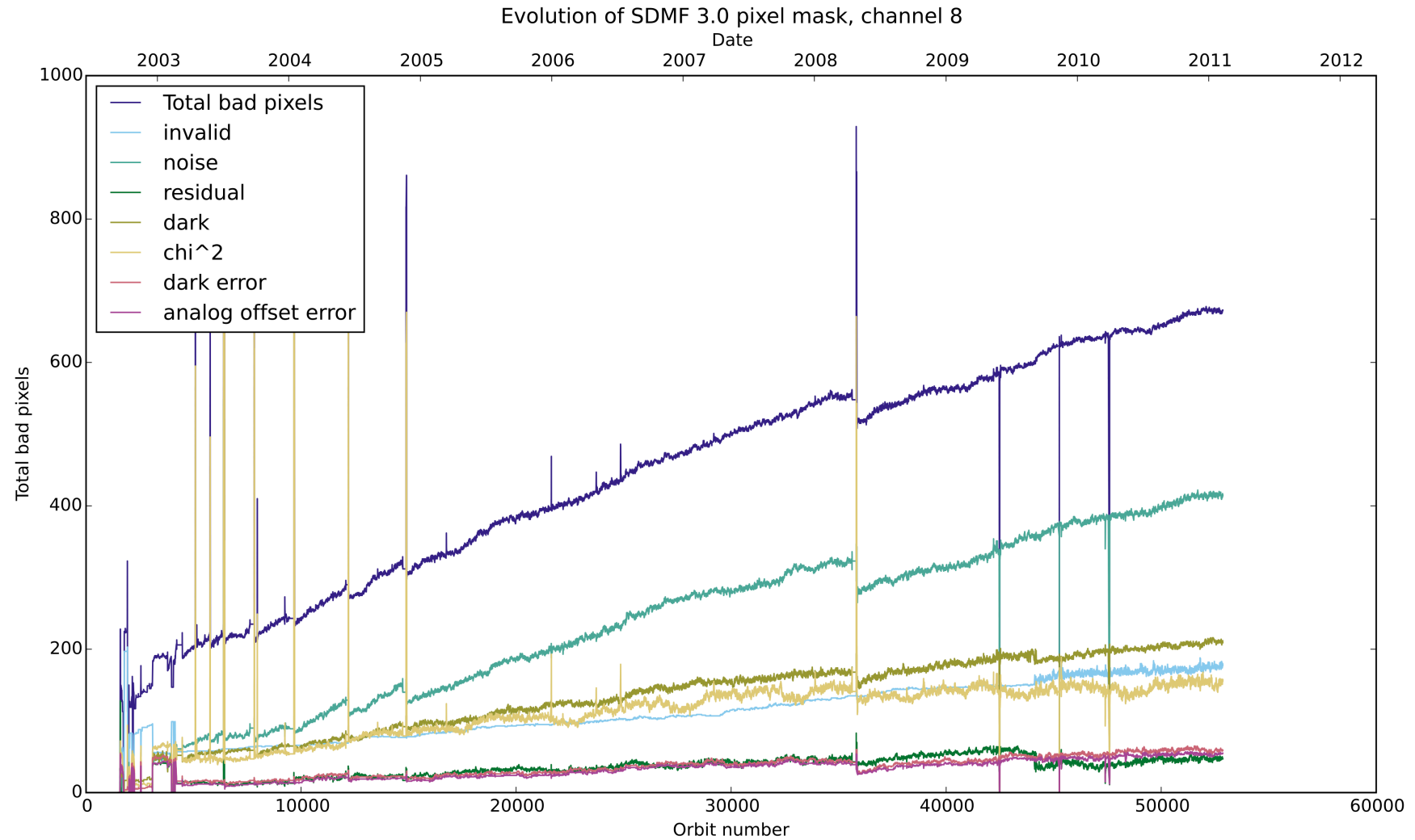


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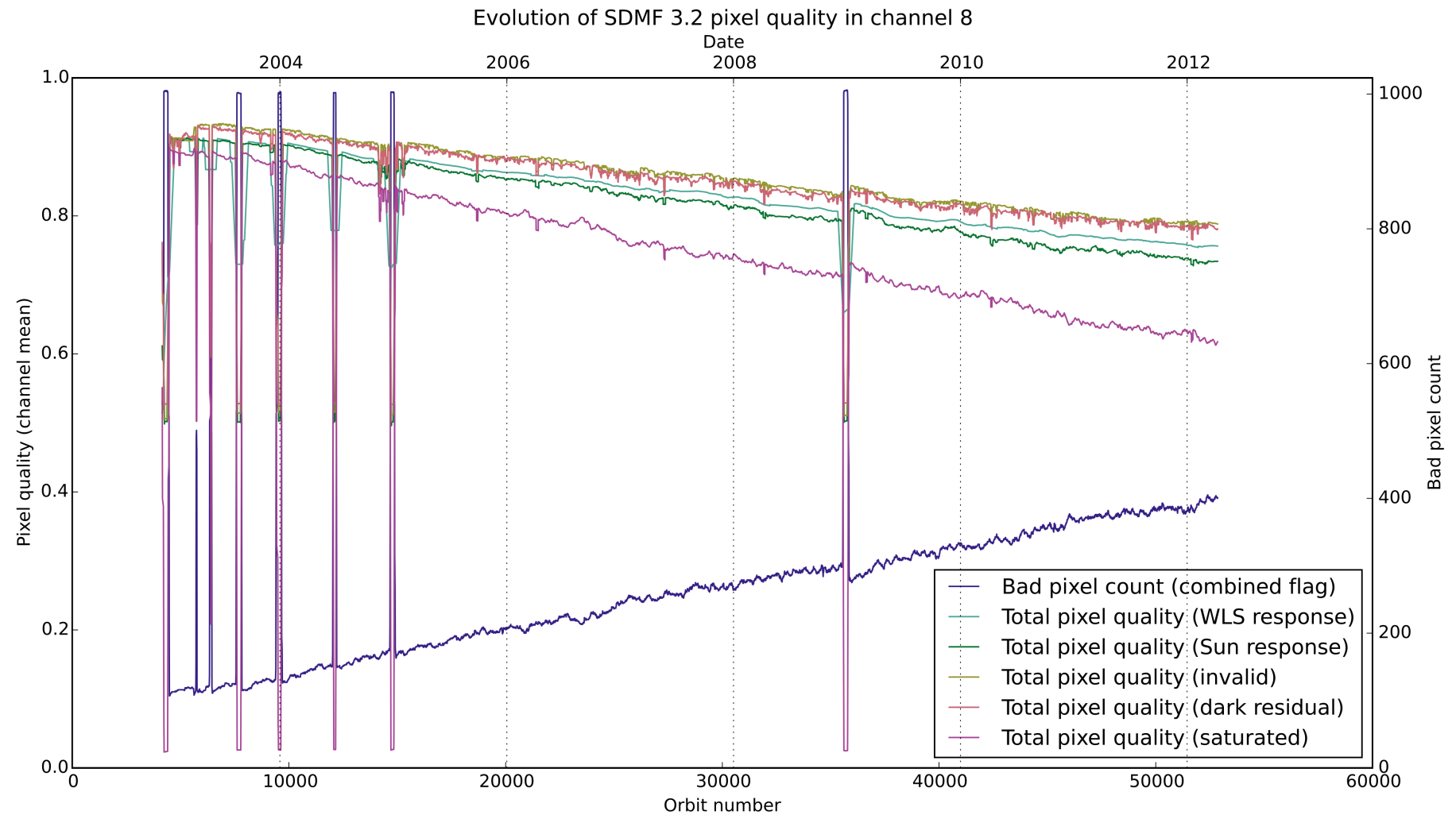
# Overview

- Experience: boolean pixel masks are jumpy
  - Smoothing helps, but not enough
  - Solution: boolean -> float
- Reduce nr of flagging criteria
  - SDMF3.0 had 12 criteria: often overlapping
  - Retrieval should have some form of SNR weighting -> noise criterion superfluous
- Improve dark and noise -> mask will also benefit

# Pixel mask evolution (SDMF3.0)



# Pixel mask evolution (SDMF3.2)



# Results

- Boolean->float:
  - Jumpy pixels have jump count halved!
  - =more smooth
- Halved number of flagging criteria, yet roughly same pixel mask