GLAST Large Area Telescope:

TKR Bad Channels Trending

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TKR

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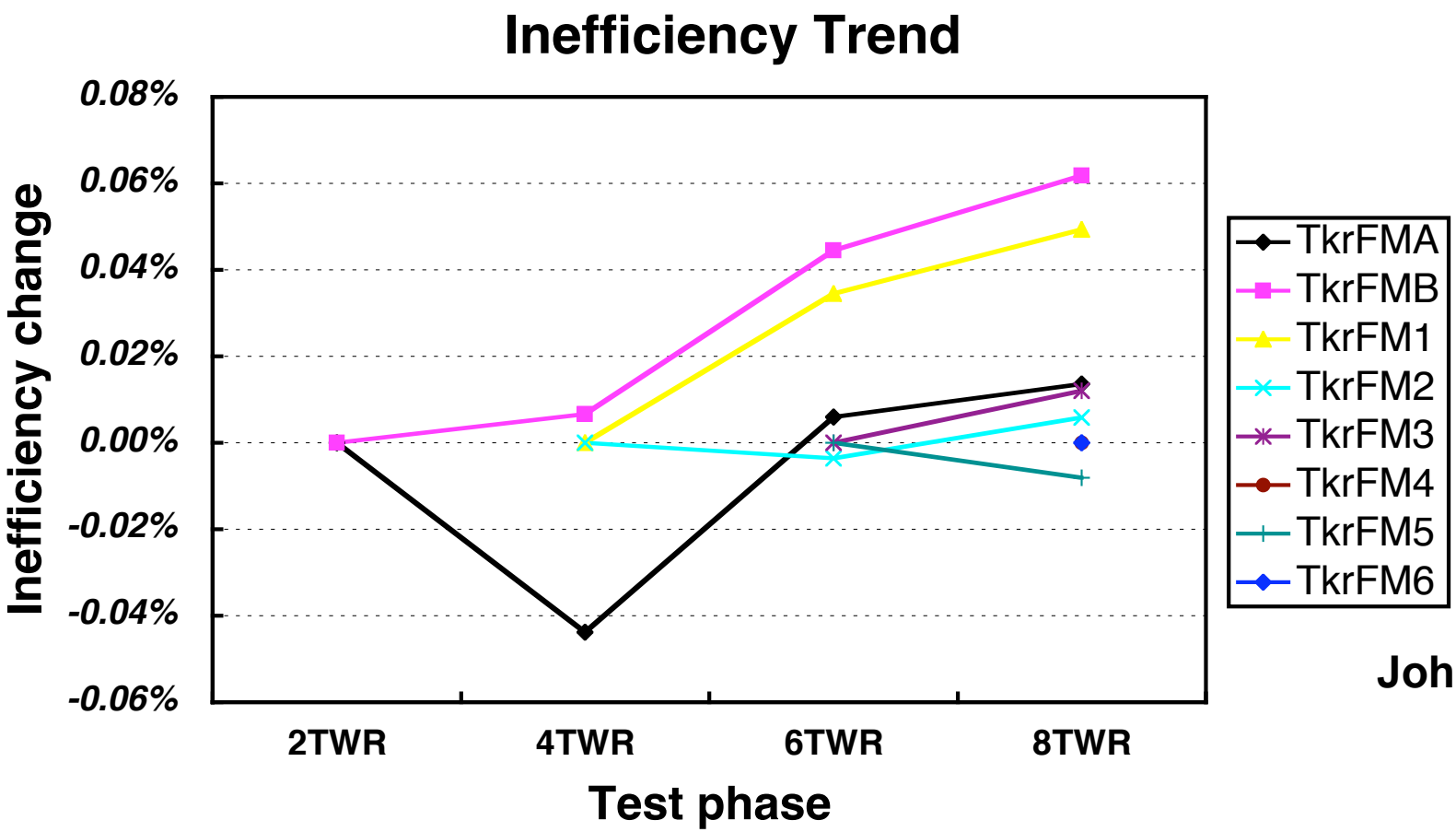
OUTLINE

- **Inefficiency trending.**
- **Bad channels trending.**
  - **TkrFMA**
  - **TkrFMB and TkrFM1 for comparison**

Tower Inefficiency Trending

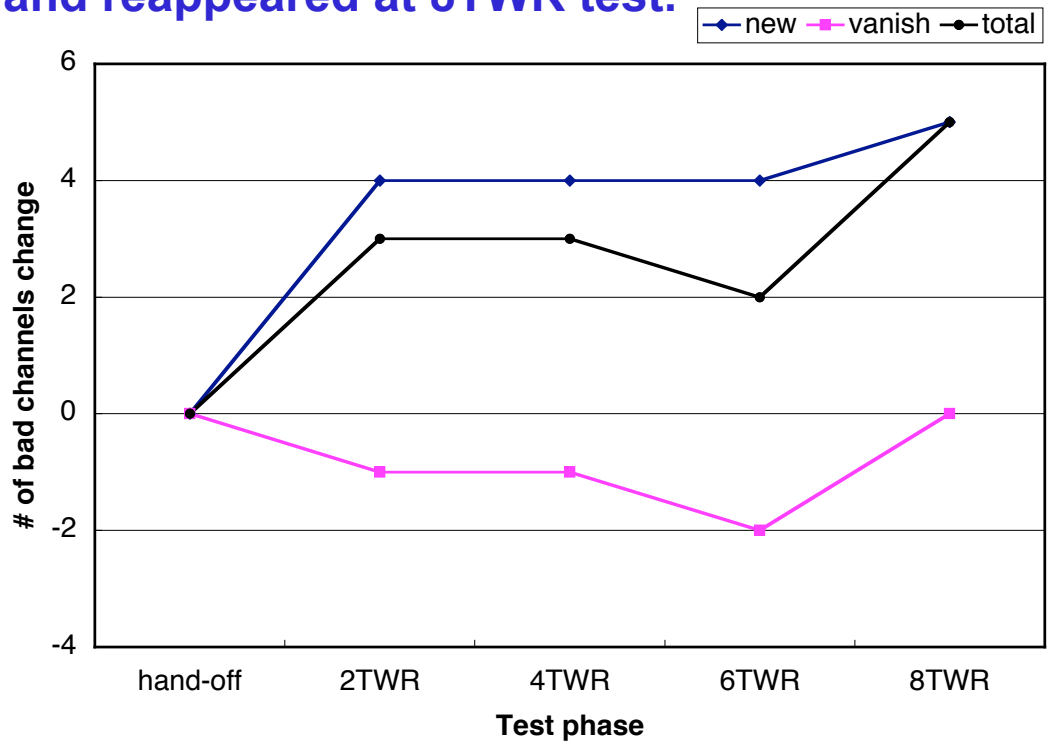
- Trend tower inefficiency during I&T phase
  - All I&T data sets are analyzed by the latest TkrRecon.
  - FMB and FM1 shows consistent upward trend.
    - 0.06% inefficiency corresponds to 33 strips.



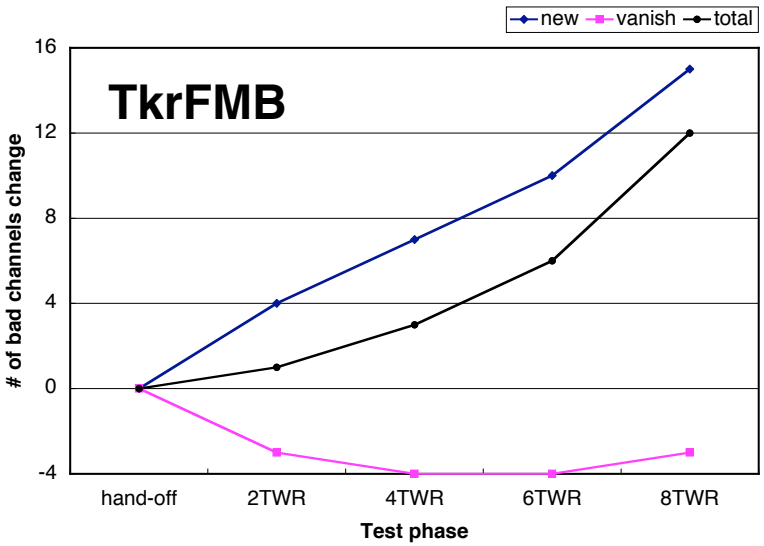
Johann

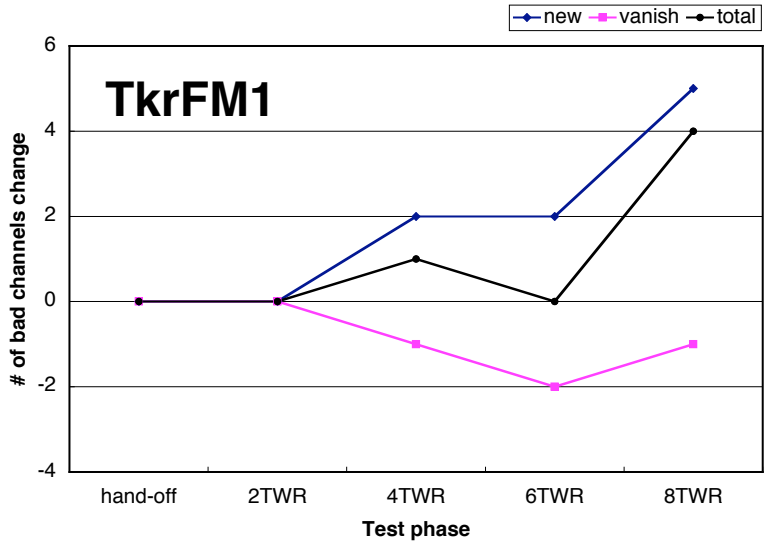
TkrFMA Bad Channels Trending

- Y0 strip 1272
  - Vanished at 6TWR test and reappeared at 8TWR test
- Y3 strips 110 and 254, and Y6 strips 66 and 214
  - Appeared at 2TWR test.
  - Y3 110 and 254 were known bad strips in online test at hand-off.
- Y6 strip 1469
  - Vanished at 2TWR test and reappeared at 8TWR test.

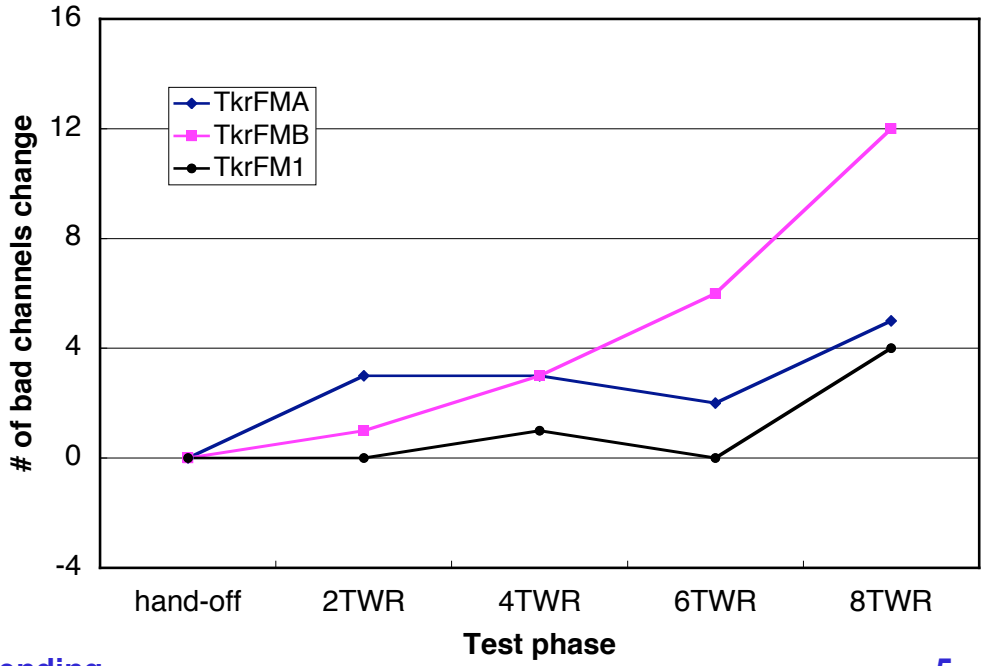


TkrFMB and TkrFM1 Bad Channels





Comparison with TkrFMB and TkrFM1



Conclusions

- **TkrFMA does not show significant degradation.**
  - **Some strips come and go.**
  - **No worse than TkrFMB.**
  - **Similar with TkrFM1.**