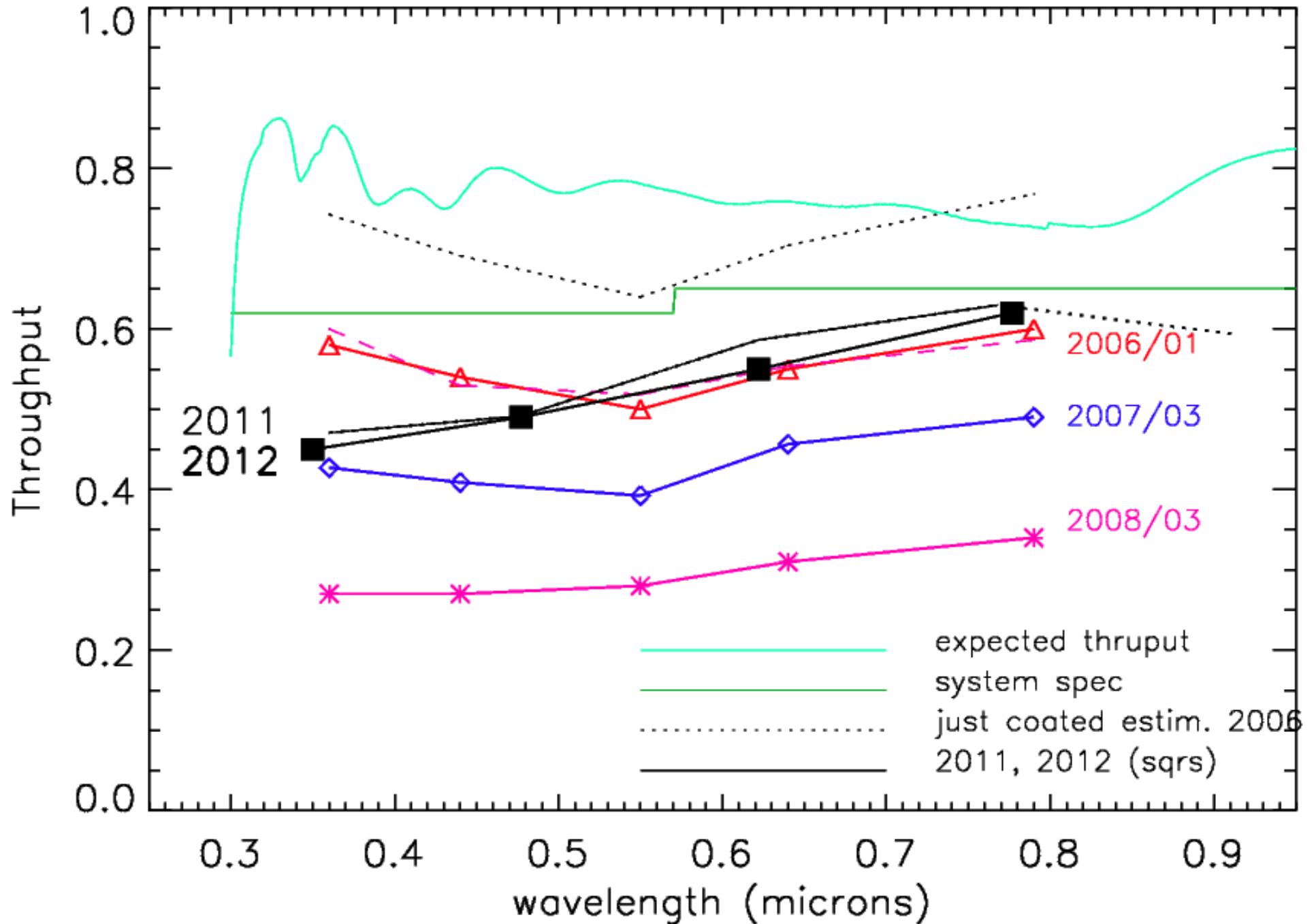


# SALT throughput October 2012

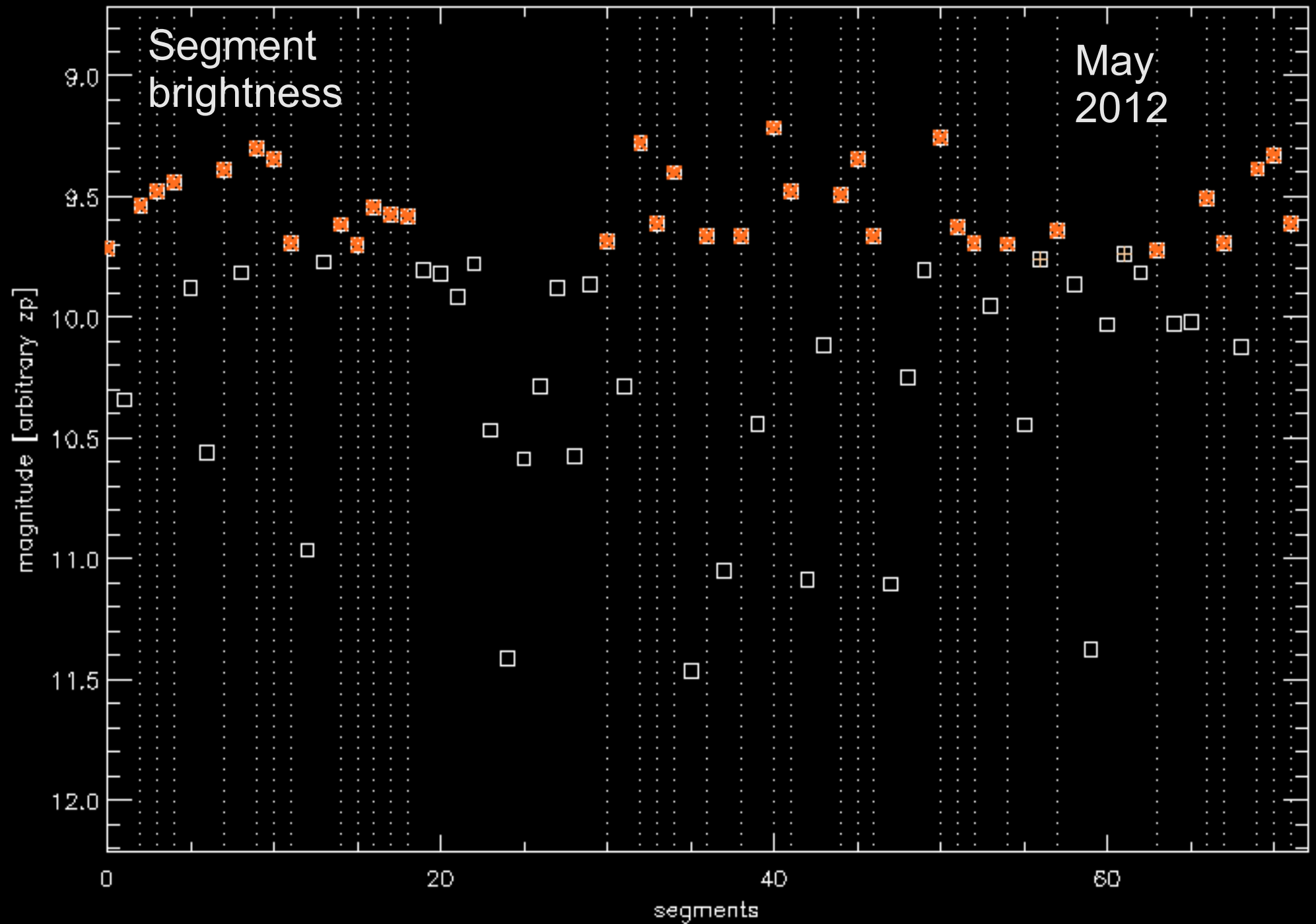
- **Major** cleaning of mirror since May 2012
- But unfortunately SALTICAM sick since August  
– can't get proper throughput measurement
- Instead new RSS measurement compared with similar ones from May 2012 and Oct 2011  
[there has been no evidence of RSS throughput getting worse over the past 1.5 years]

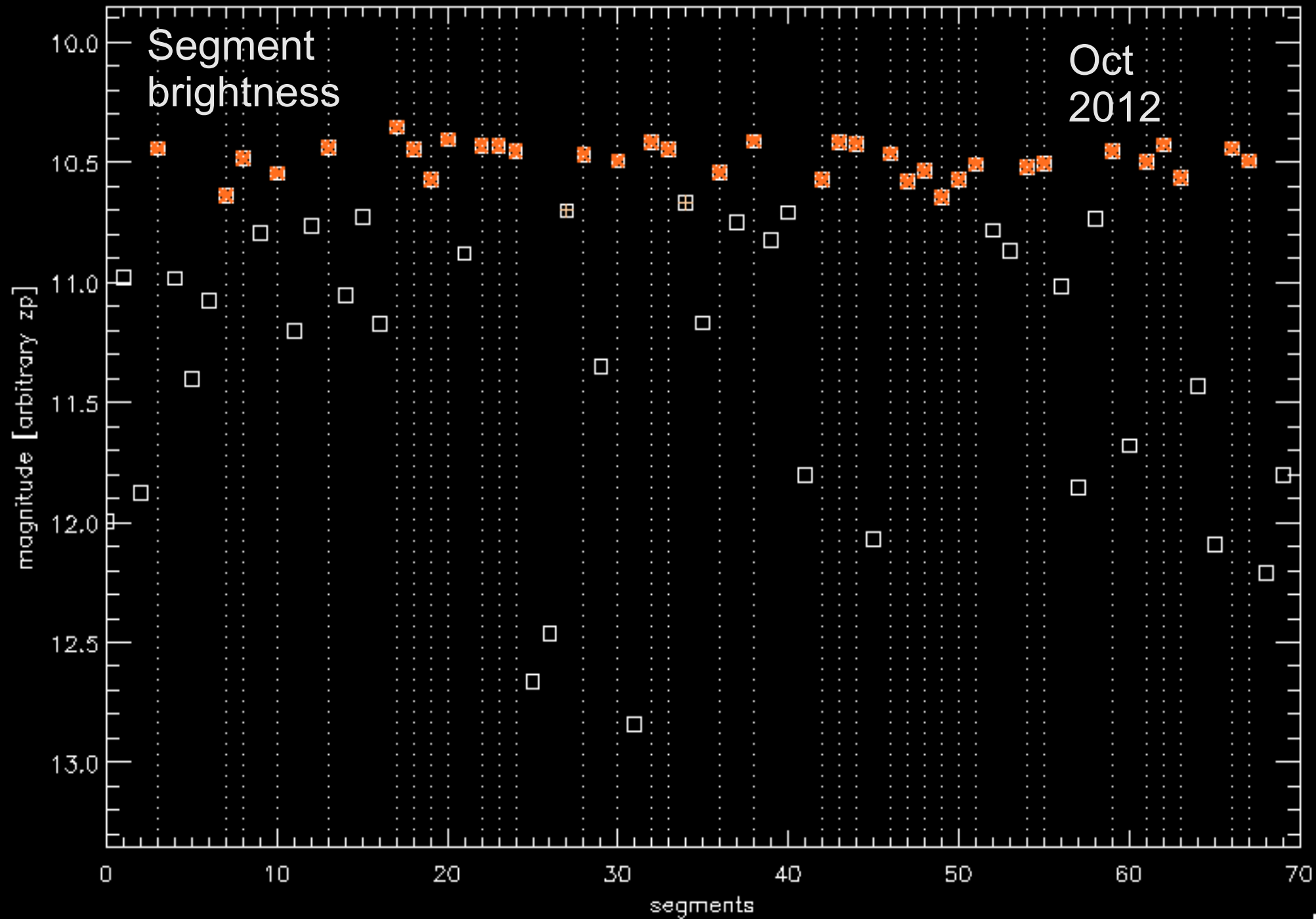
# telescope throughput derived using salticam



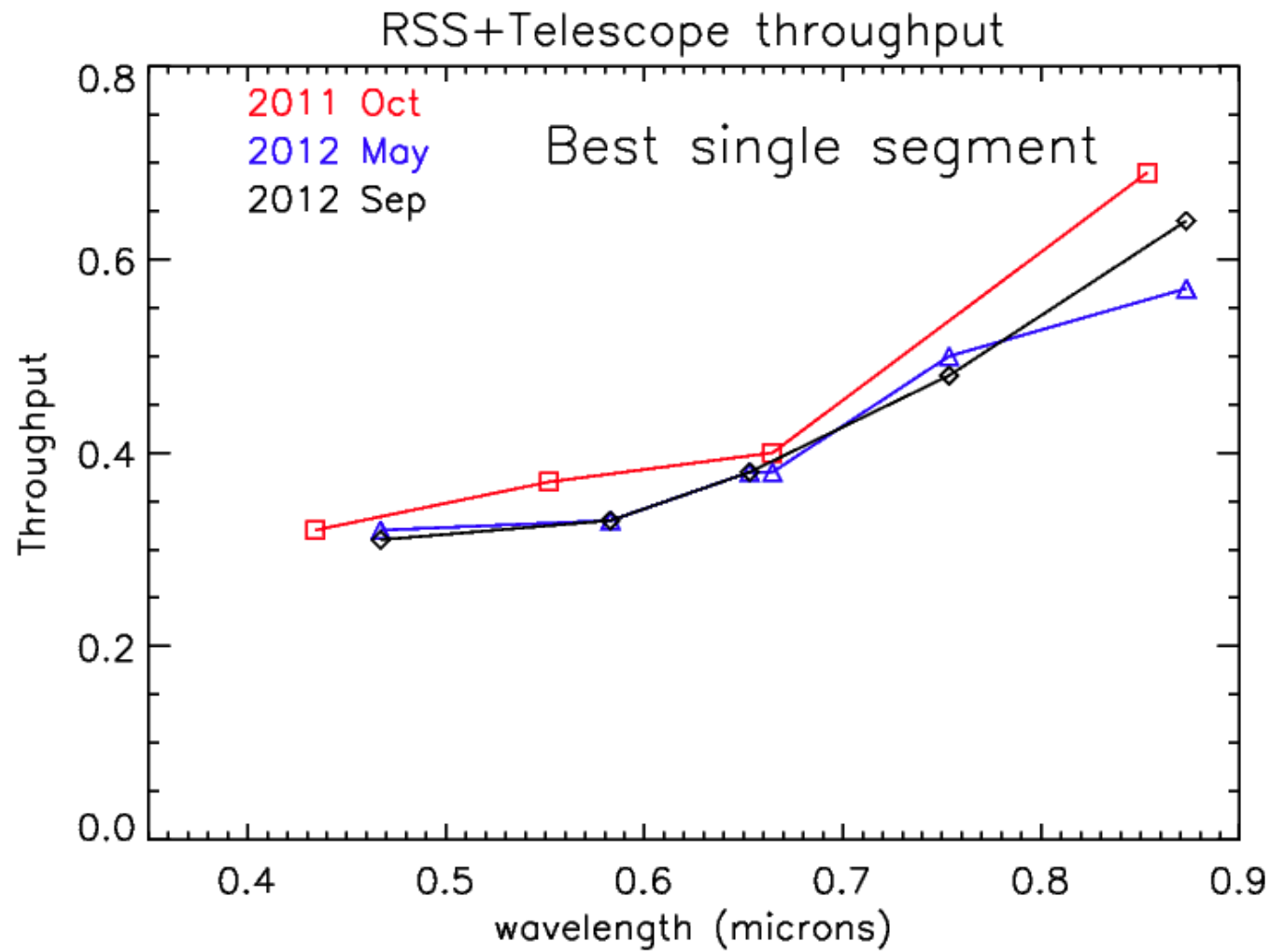
# SALT throughput **until** May 2012

- Telescope throughput been around 45 to 60 %
  - Clean mirror expectation is 70 to 80 %
  - Calculated for 8 brightest segments, the bulk of the primary is another 0.2 (red) to 0.3 (blue) mag dimmer.
  - During early years lost 20-30% per year without cleaning

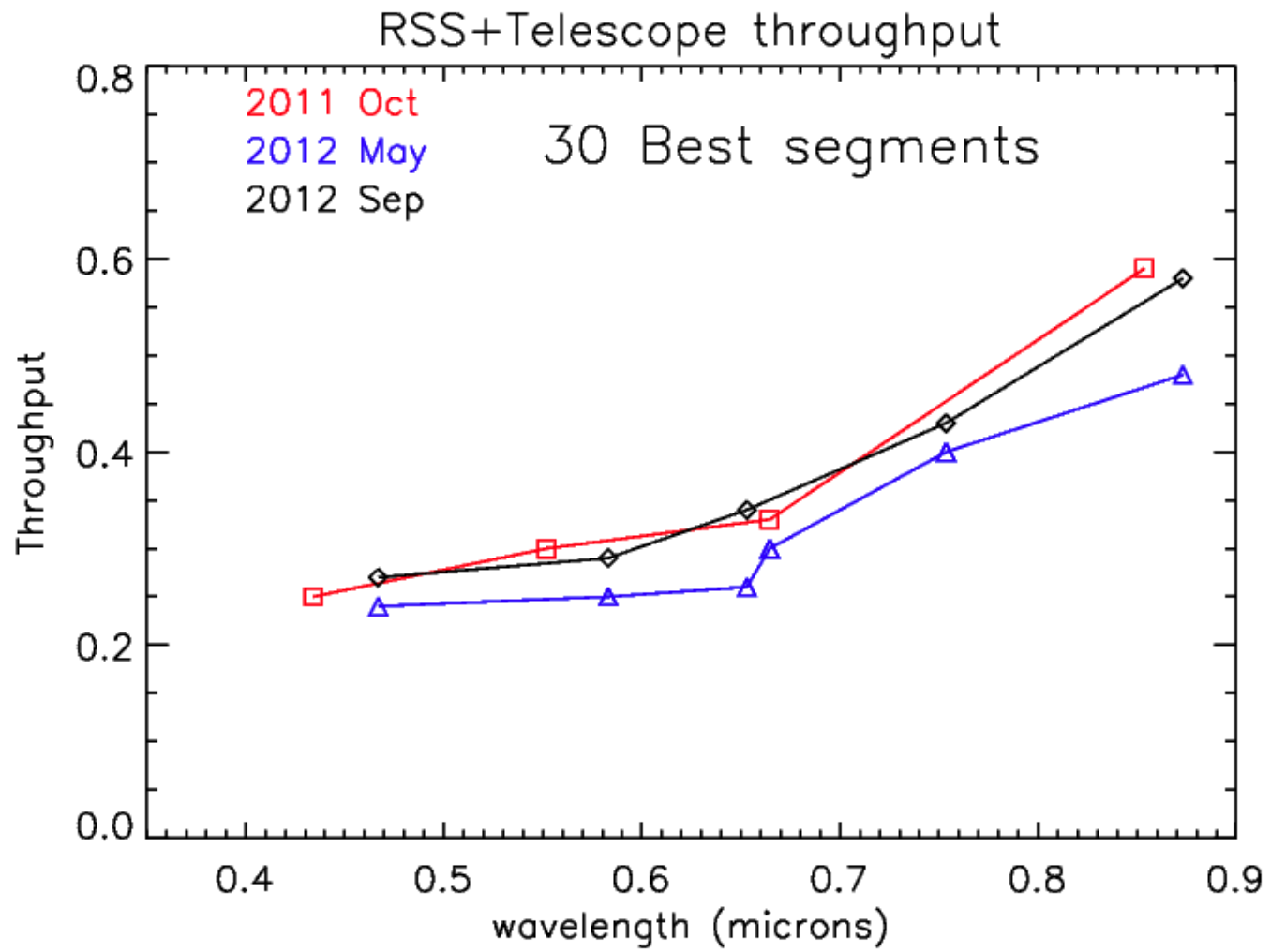




# RSS measurements 2011-2012



# RSS measurements 2011-2012



# SALT throughput status Oct 2012

- All segments are clean now.
- Average throughput using the best 30-50 segments **has improved by ~15% since May**
- Using the best 8, only 3-5% better, meaning the Telescope+SAC is still not as expected (?)
- Single best segment was better in 2011. Why?