

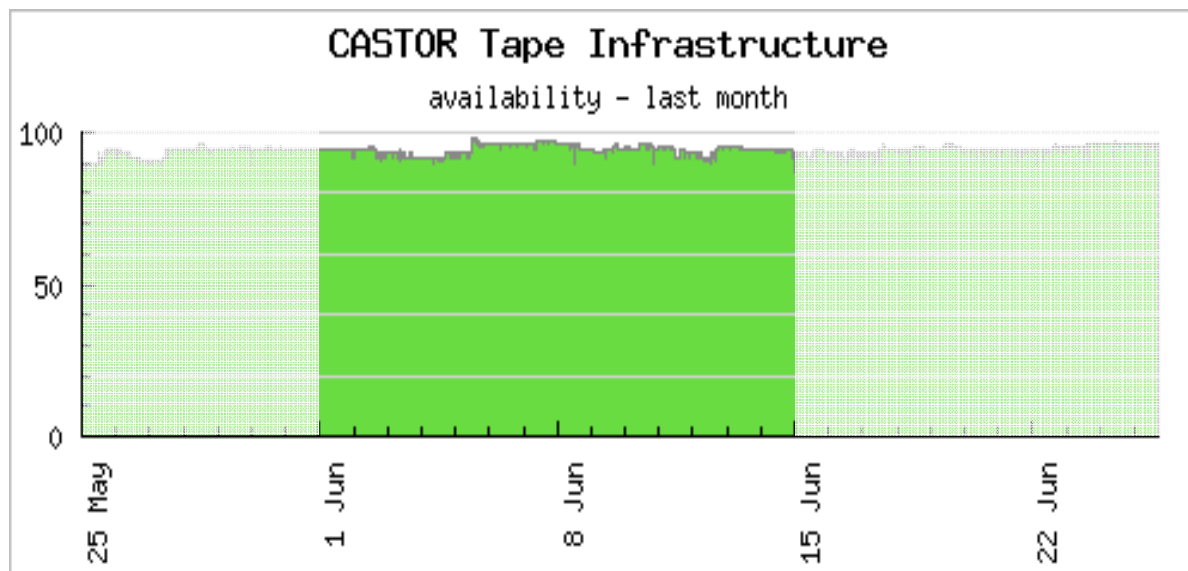
CERN – Tier0 Tape WLCG STEP'09 Post Mortem



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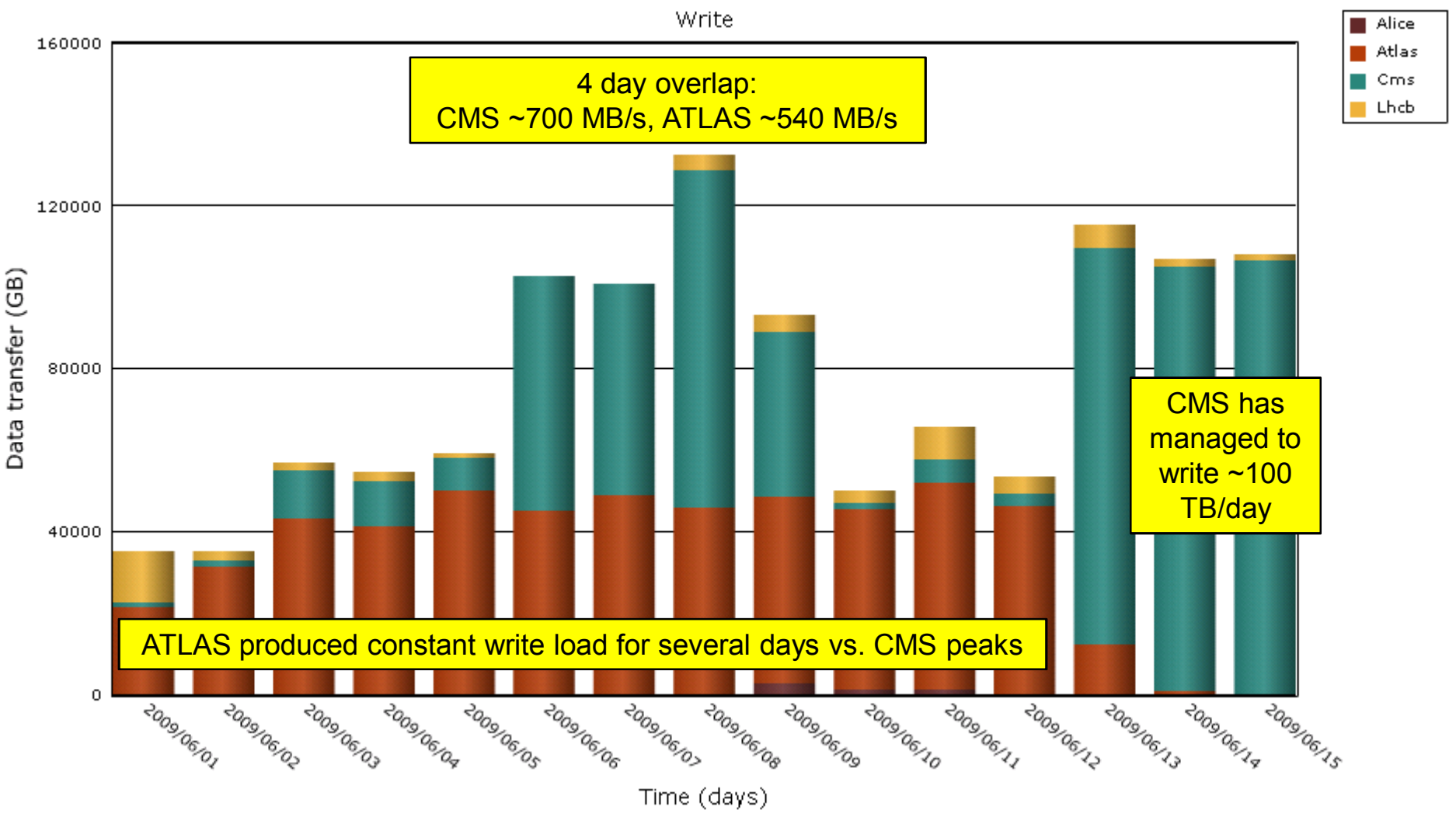
July 2009

No unexpected incidents

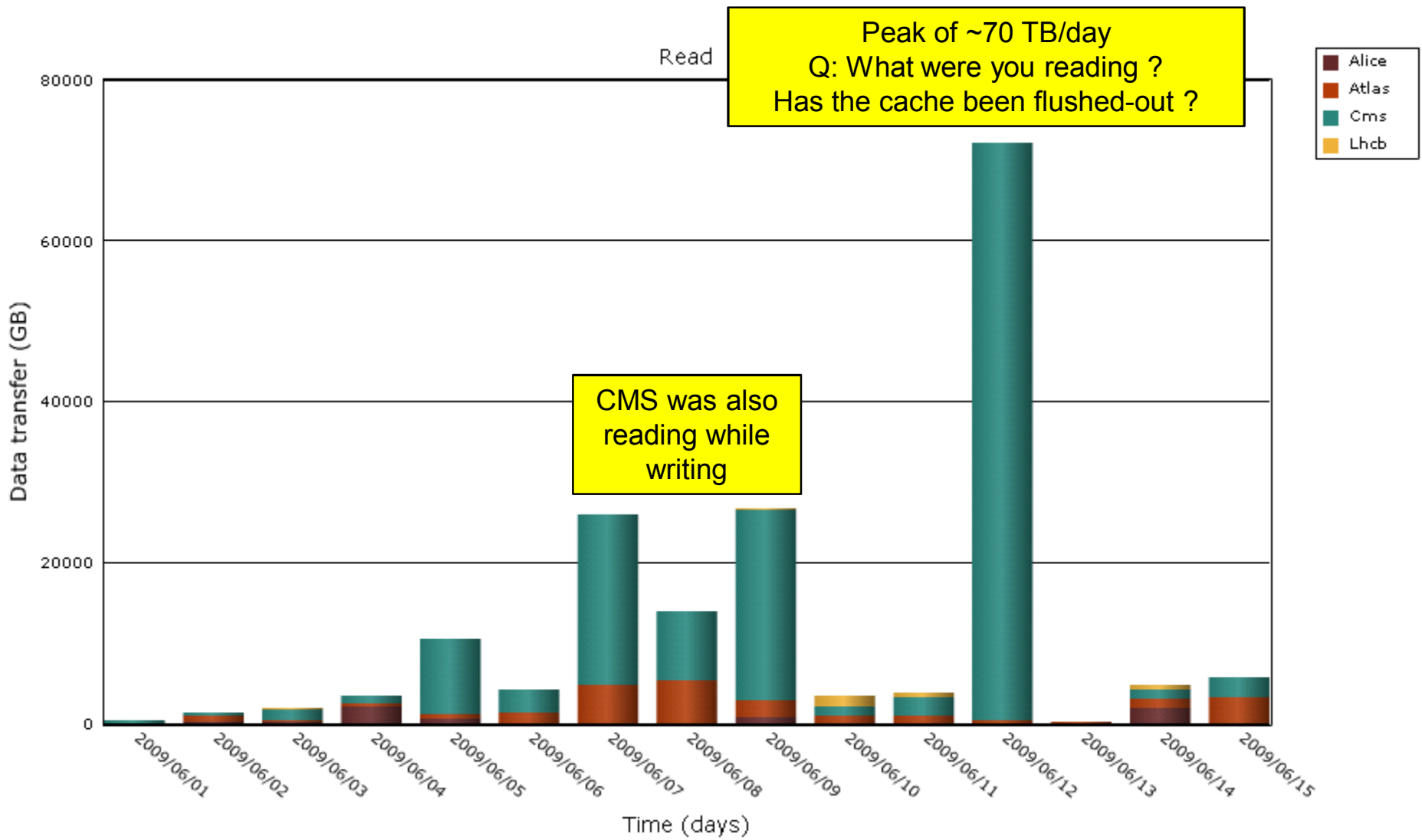


All robots were accessible, $\geq 95\%$ of the tape drives available

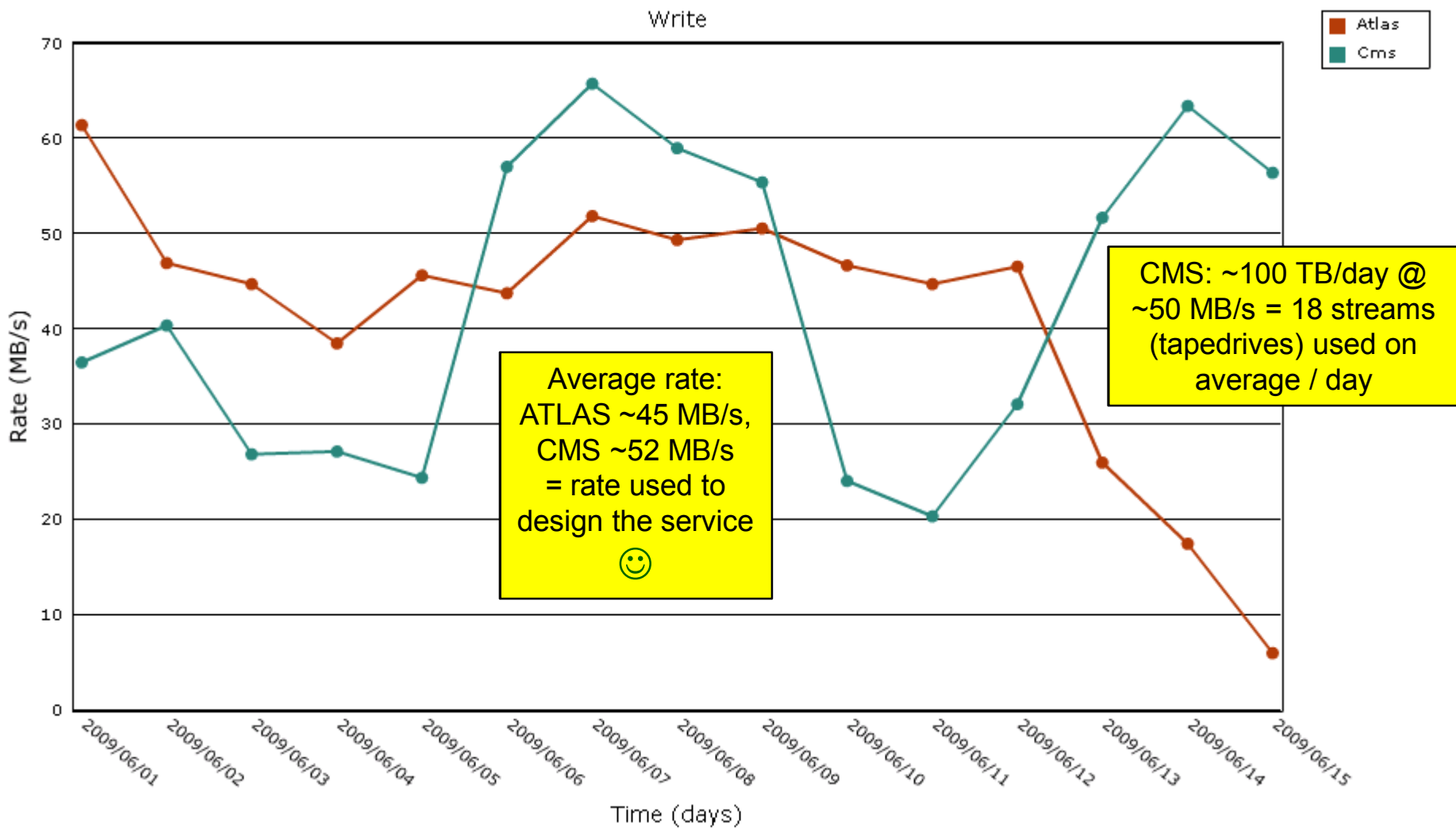
Amount of data written



Amount of data read

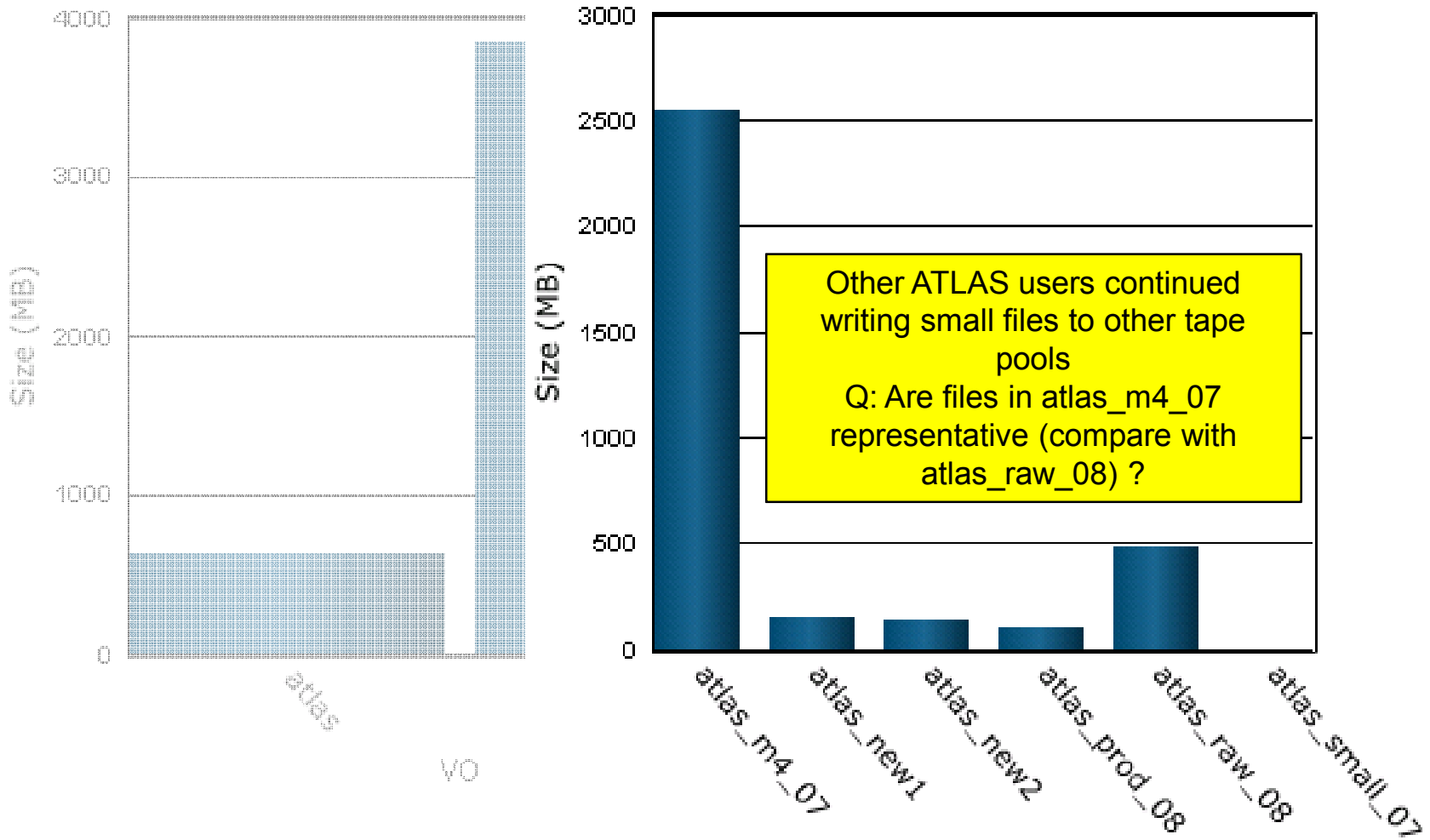


Write data rate / stream



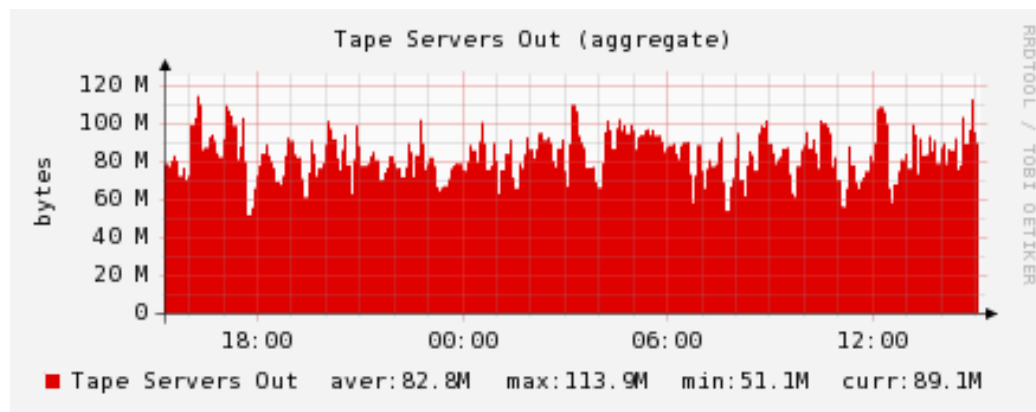
Average file sizes

- 6-8 June ATLAS & CMS write overlap



Lessons learned – monitoring

- Some SLS graphs difficult to interpret – 4 hours rolling window
 - Makes sense when producing the data
 - Not practical from user perspective



- Demand for:
 - Instant real-time data for the throughput metric
 - Implemented using IP-tables data on stagers to give per service class overview in Lemon
 - In CASTOR 2.1.8-10 release; to be deployed soon
 - Per day overview
 - Propose to change SLS window to 24 hours
 - Might have impact on other sites as tape metrics already agreed

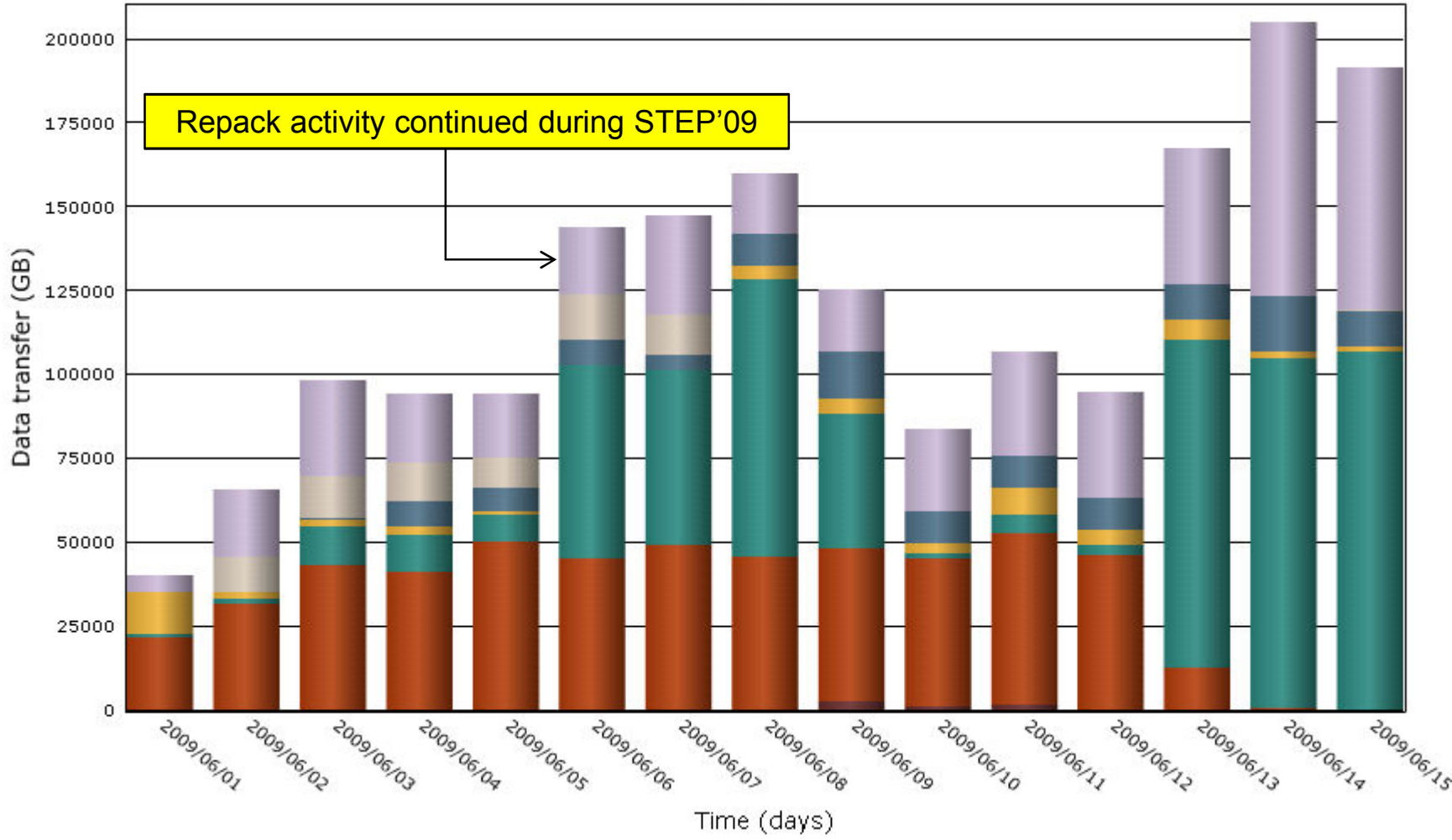
Total load (data written)

200 TB/day = ~2.3 GB/s

Write

- Alice
- Atlas
- Cms
- Lhcb
- Afs
- Compass
- Na48
- Na61
- Other
- Repack
- User

Repack activity continued during STEP'09



Conclusion

- CASTOR Tape Service sustained significant load
 - From ATLAS and CMS
 - Still had spare capacity for repacking in the background
 - No major problems observed
 - Monitoring issues identified and already being addressed
 - STEP'09 produced good load and valuable feedback
- ☺ Please remove files that are not needed. Thank you ☺