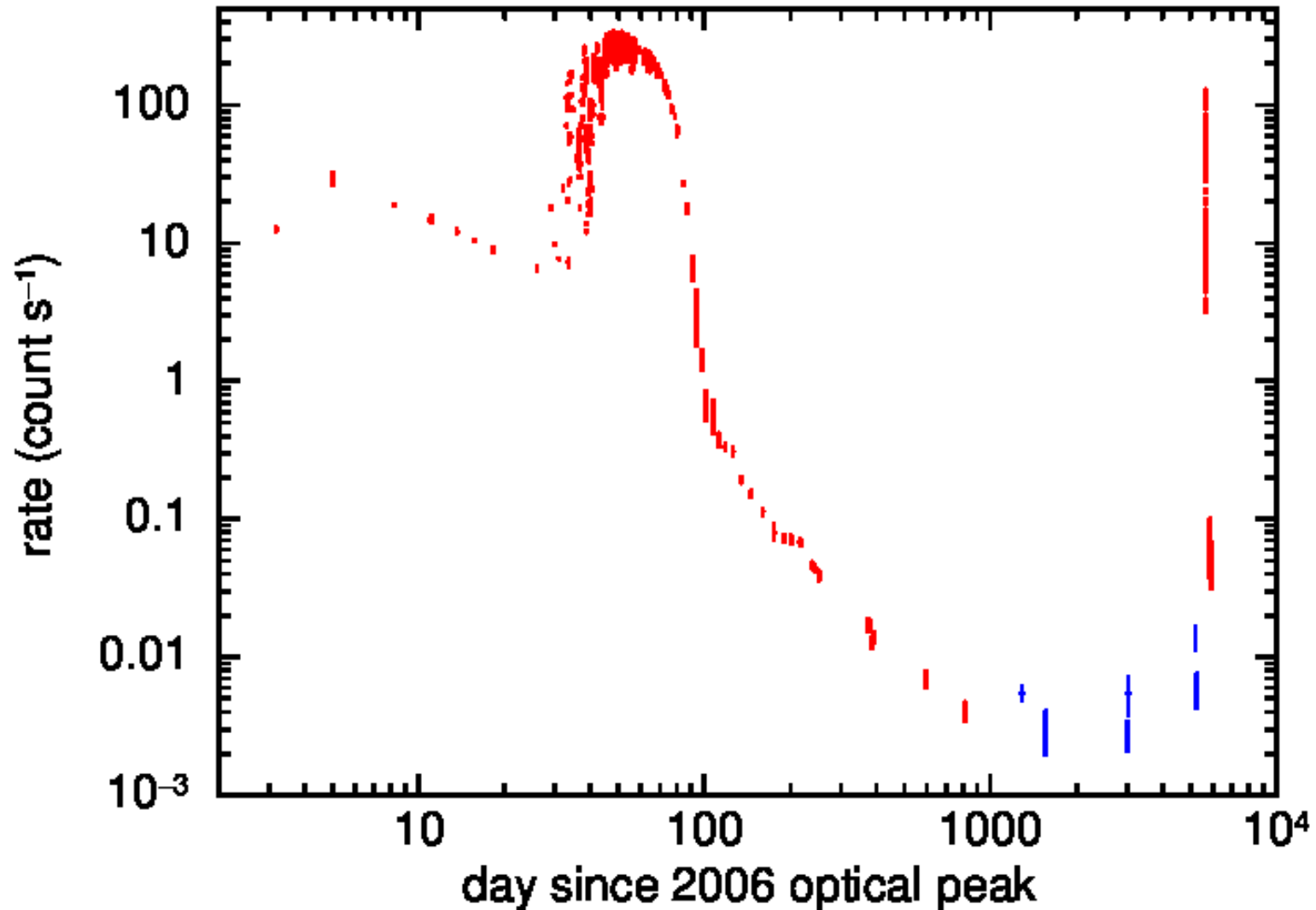
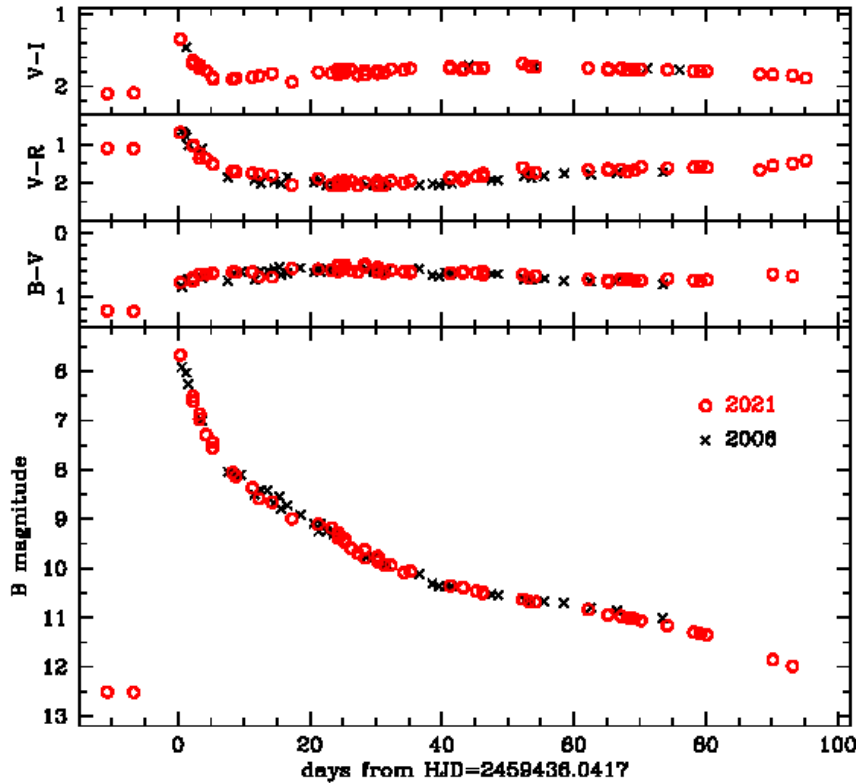


The 2021 outburst of RS Oph observed in X-rays by Swift: a comparative study

Kim Page

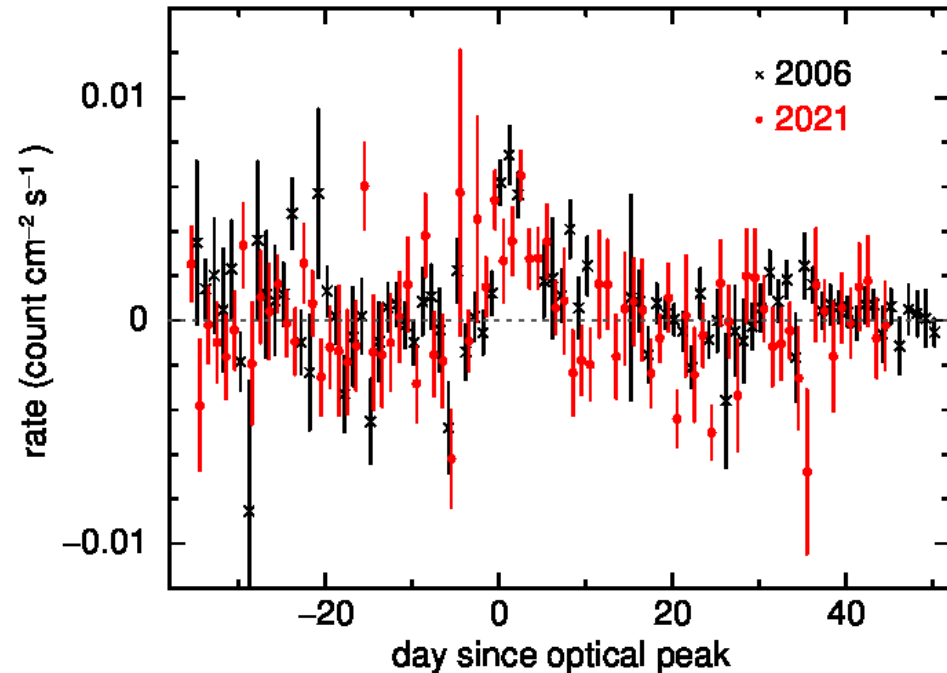
HARDY

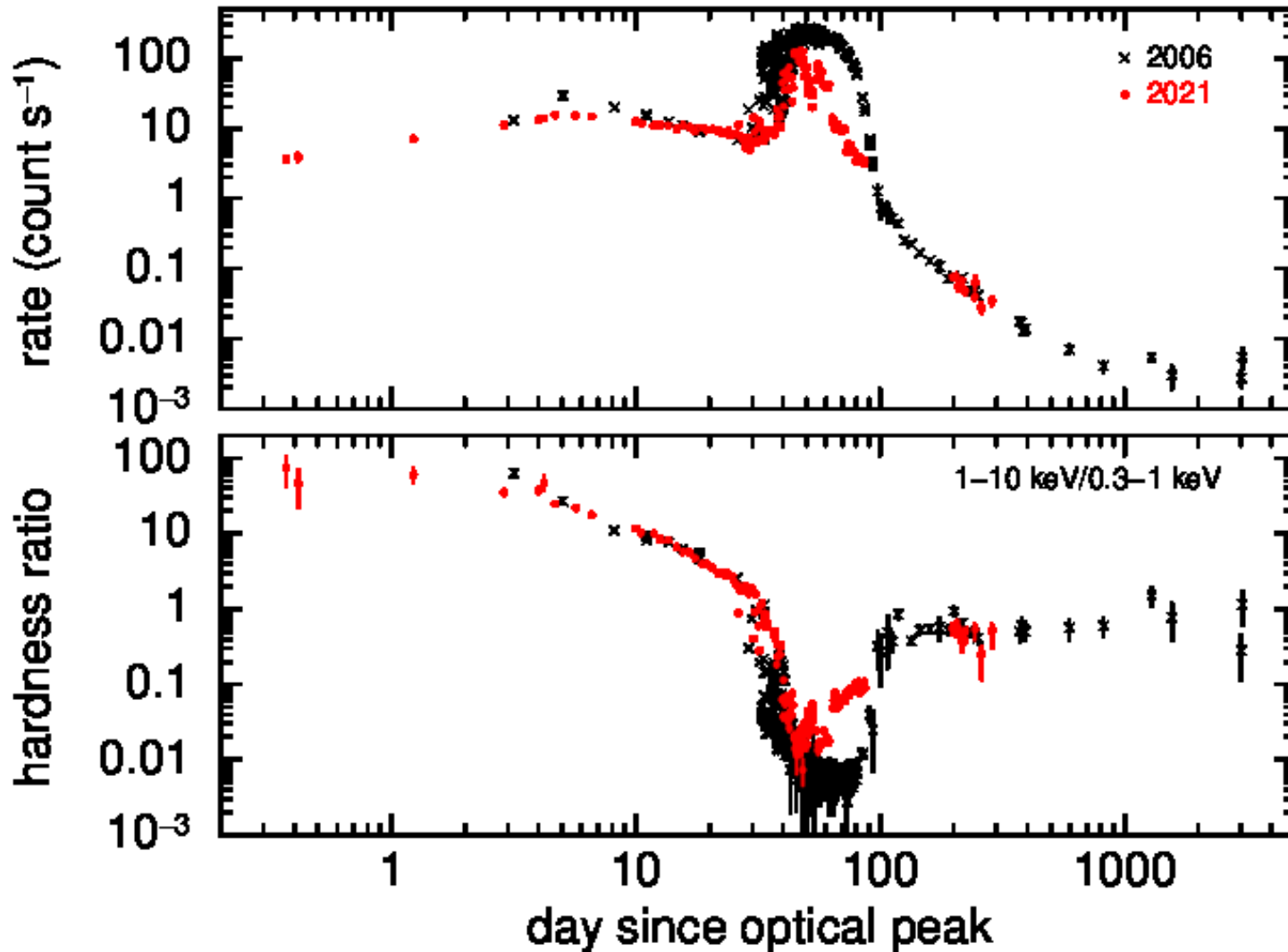


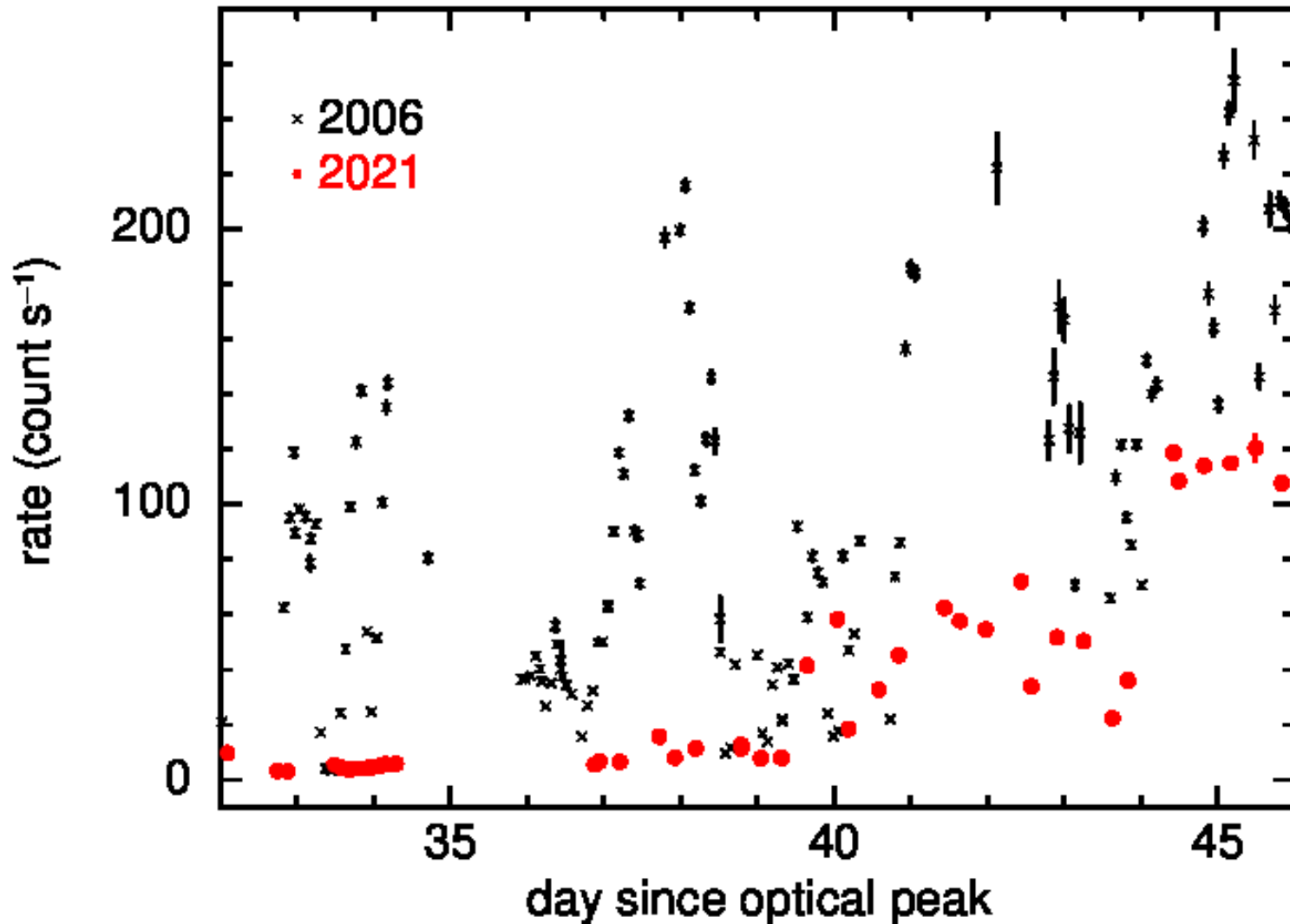


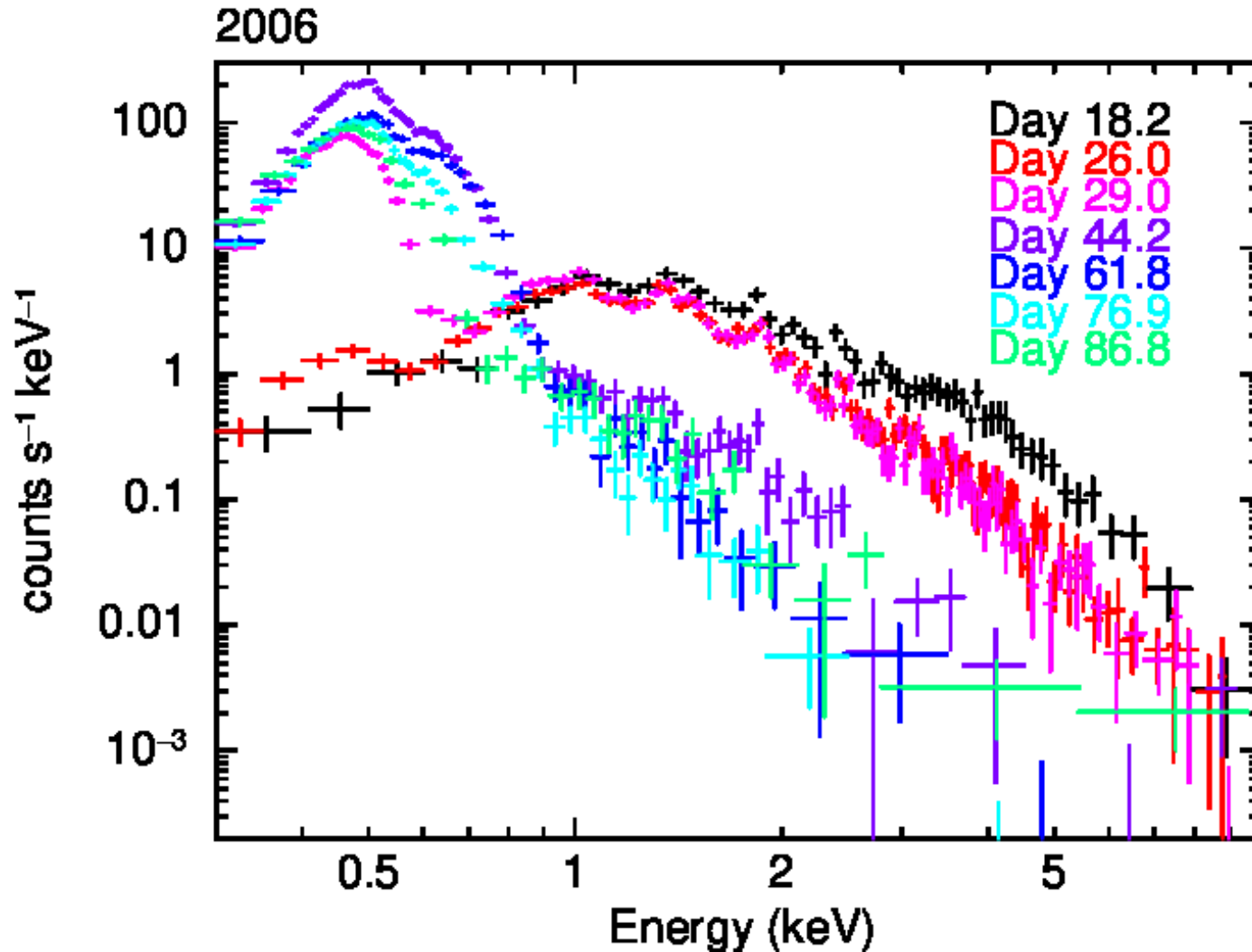
Data from ANS Collaboration.
Credit: Ulisse Munari

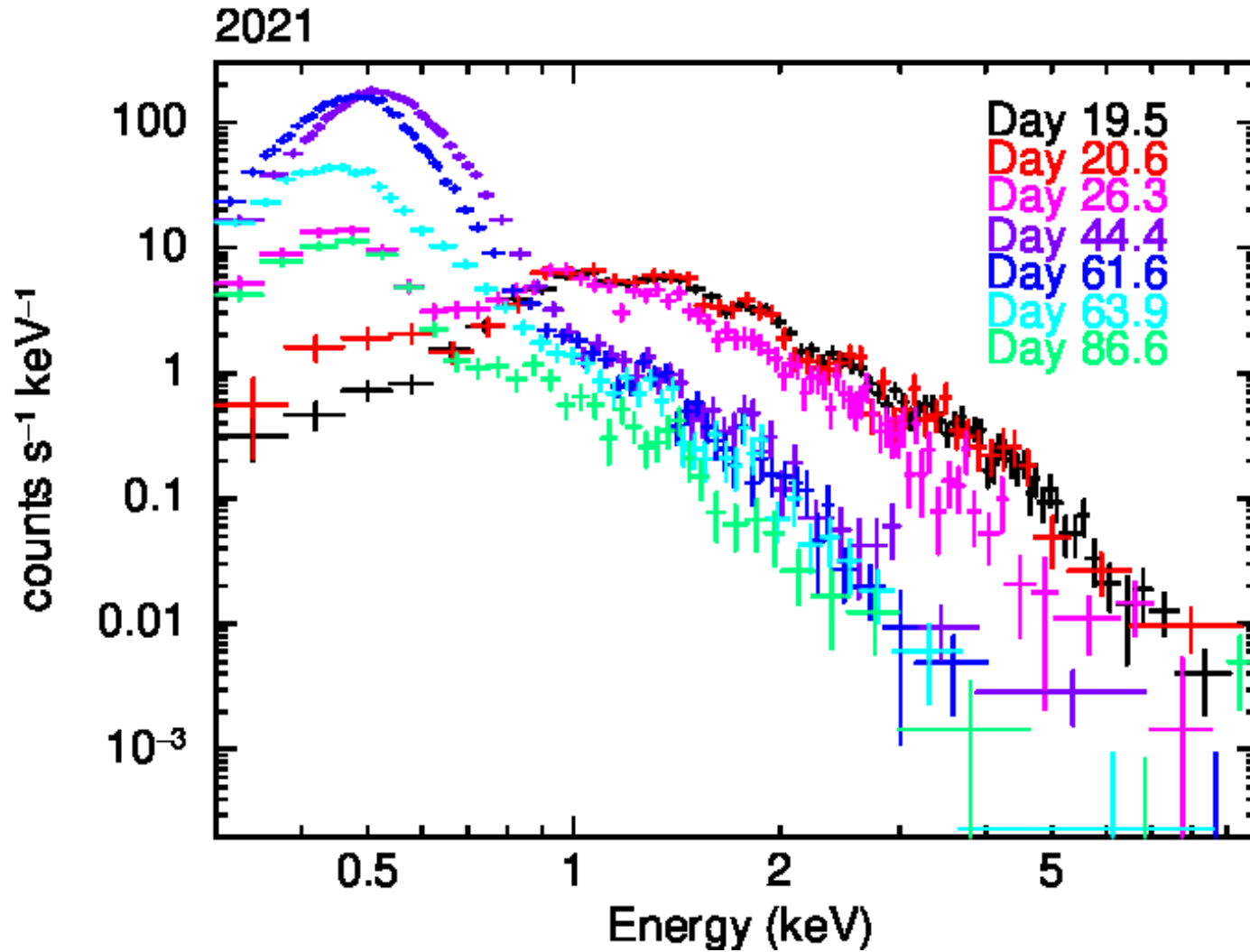
Data from Swift-BAT
Transient Monitor

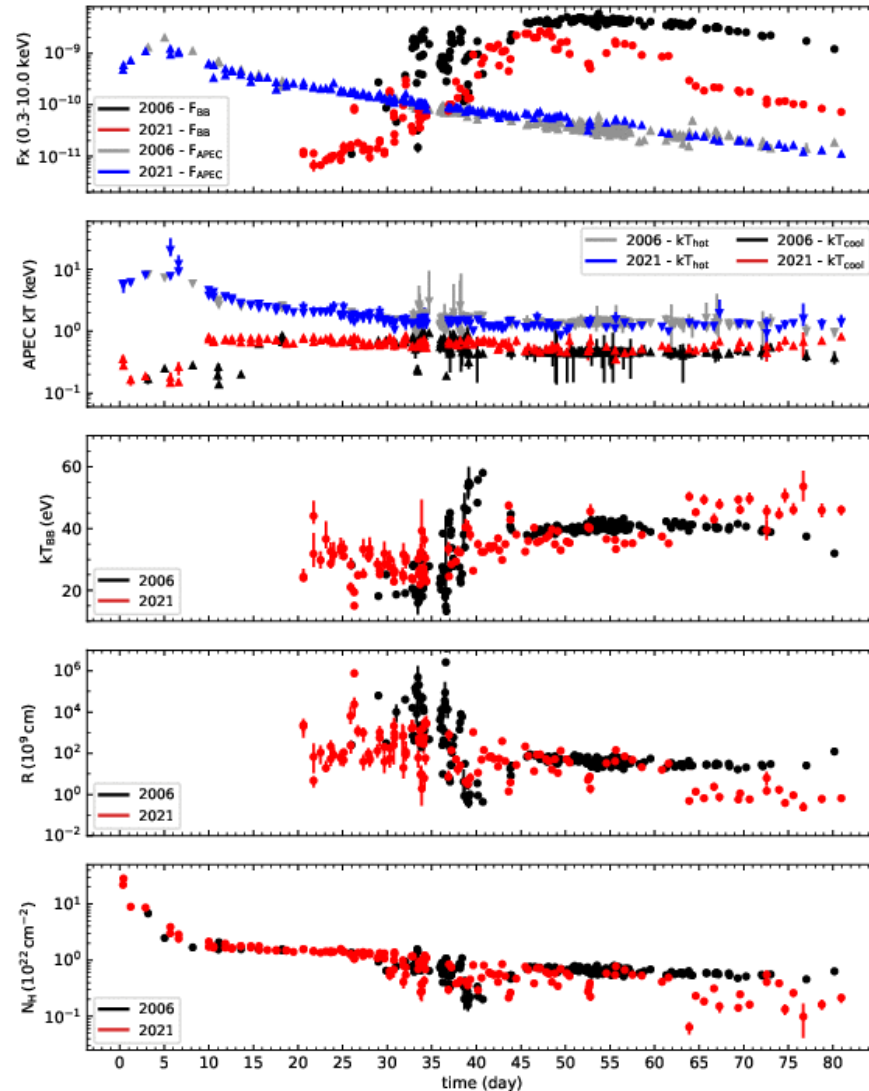


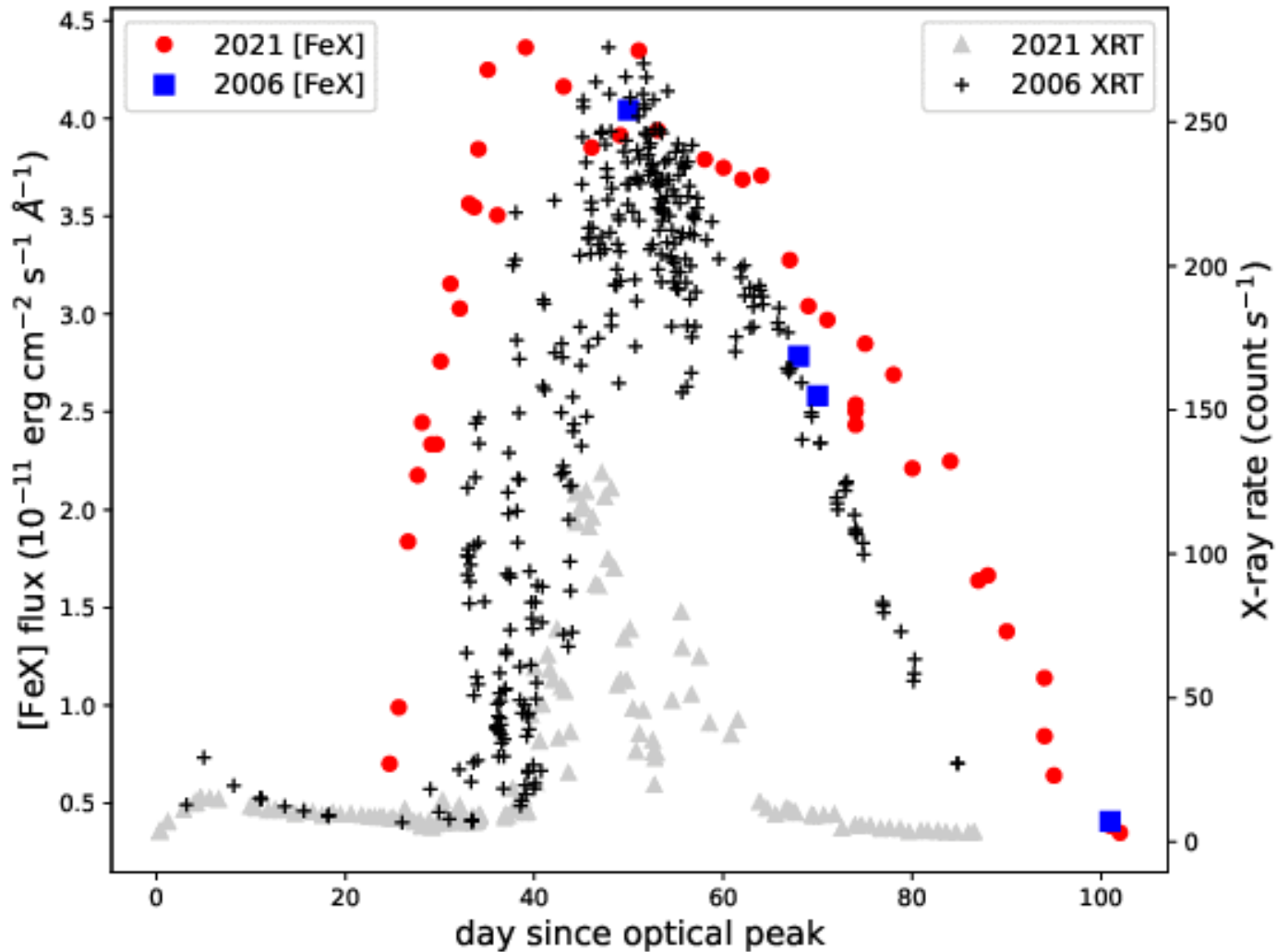












- The 2006 and 2021 eruptions were 15.5 yr apart – the average recurrence time. 2006 occurred after a longer 21 yr gap.
- The difference in soft X-ray counts measured (4-5x greater in 2006) is much larger than the difference in quiescent intervals.
- While absorption might seem like a good explanation for decreased soft counts, fitting neutral N_{H} does not support this. More complex absorption?
- The BB effective emitting radius in 2021 (~2 months after eruption) is significantly smaller. Could be a sign of the expected shrinking of the bloated WD atmosphere as nuclear burning switches off – though the [Fe X] data suggest this interval was about the same both years.

Page et al., 2022, MNRAS, 514, 1557 (arXiv:2205.03232)