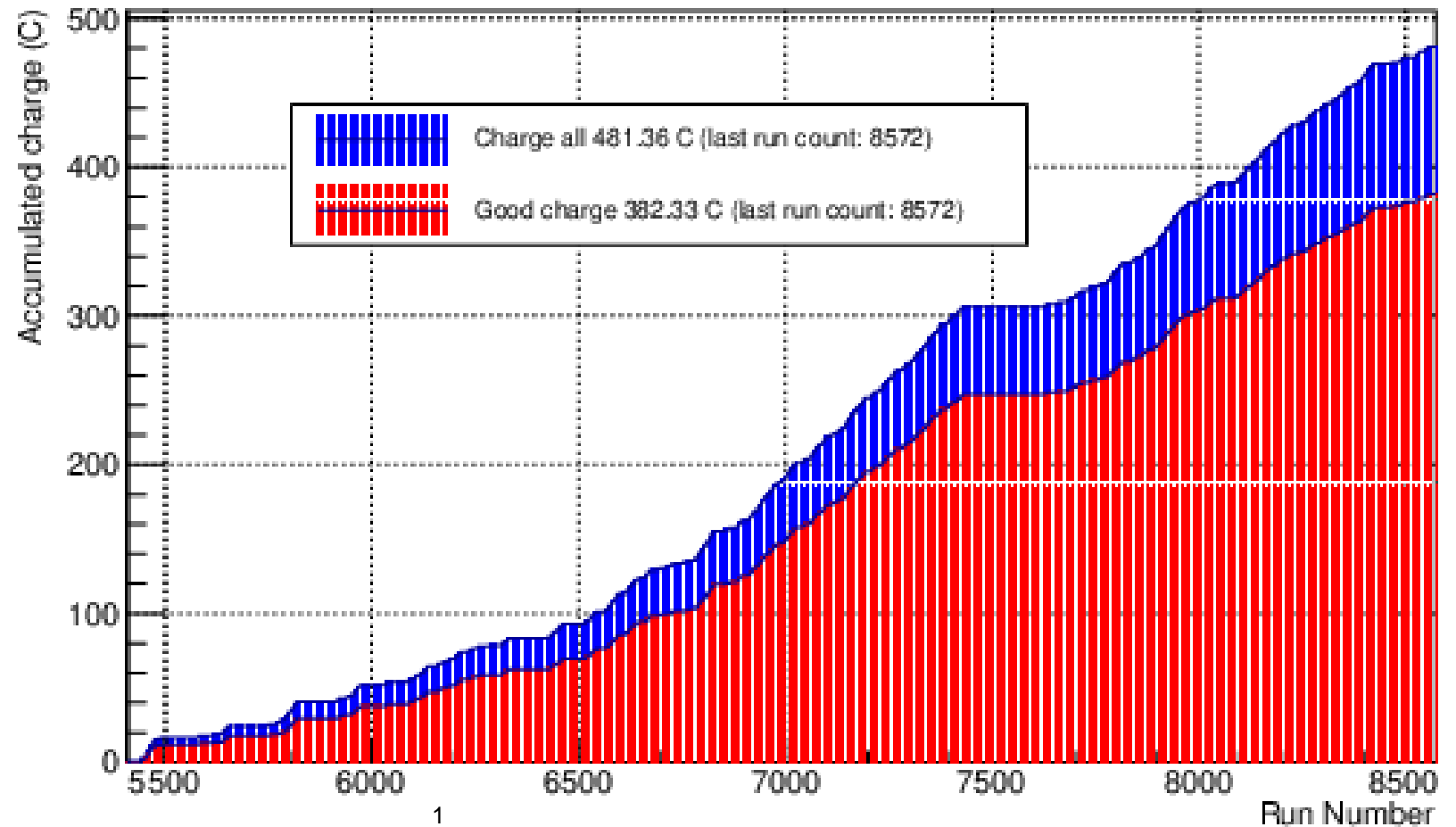


CREX data set

- First run period: 5408 – 7430 (slugs 100 – 185)
- Second run period: 7626 – 8558 (slugs 186 – 223)

Charge total vs run



CREX run period 1 preparations

- Work on these areas was largely done at end of April
 - Pedestal run-ranging was considered and pedestals re-evaluated similarly to PREX
 - BMOD correction files ready
- What needs to be done
 - Add an event-level difference between analog BCMs and burp cut on it
 - $\text{bcm_an_diff} == (\text{bcm_an_us} - \text{bcm_an_ds}) / 2$
 - Low and high range cuts: -10 to +10 range (so up to +/-20 uA difference allowed)
 - No stability cut
 - Burp cut level of 0.15 (so a change in the disagreement by 0.3 uA triggers the burp) --- Cut level may be relaxed after evaluation by Victoria
 - Ensure the AT combinations have been added to CREX map files
 - Set up script to track the error cause for discarded events across multiple runs
 - Clean up stability/burp definitions: two periods around 5500 and 7700 have mixed settings
 - Check and clear space for the outputs: can we remove the PREX web plots?
 - Aim to start respin1 the week of Dec 7

CREX run period 2 preparations

- Run list evaluation and event cut evaluation: ongoing by WACs
- Pedestals: we will do some simple cleanup of the pedestals and propagate pedestal changes to the run we think they ought to have started
- BMOD: we won't wait for the dithering correction slopes to start respin1; may be able to have these available by the time we get to slug 186
- During prompt, the burp cuts were changed at around run 7934; need to evaluate either pushing this change earlier or keeping the change

Other possible changes

- Add restriction to 12X range?
 - <http://ace.phys.virginia.edu/HAPPEX/4071> was a study by Devi of how much data might be cut by excluding 12X excursions at the 0.8mm or 1.0mm level for a subset of the run
 - This particular study used deviation away from the mean of each run, which is not a cut that we have; implementation could be done using a fixed cut for certain run ranges but would need more study
- Full pedestal study as done for PREX
- Cross-check for runs in which slow controls settings change partway through the run; blinding fails for events after the change, but we may not have the “right” configuration