**Sample Correcting Functions**

**Method 1. Producer-supplied enhanced raw data files**

Files ap090413.ggp – ap091213.ggp cover the period from April 1 – Dec 31, 2009 at Apache Point. Compared to the repair core ‘12’ files, the ‘13’ files have an extra column for the gravity correcting function. A Tsoft plot is included for the period 2009/09 – 2012/08.

These files are easy to generate at the same time as the ‘12’ files, assuming the producer keeps track of the gcf as the gravity series evolves in time. The gcf starts out at exactly 0.0 at the beginning of each independent series at a station.

**Method 2. ICET derived enhanced raw data files**

**As above, but derived from the ICET-corrected ‘22’ files at IGETS.**

These files can be generated from the ‘00’ and ‘22’ files uploaded by ICET, but I found the different handling of gaps between the two series requires more involved coding than Method 1. But obviously this is the method to use for the majority of stations. One has to be careful if producers changed calibration constants; a problem that will be solved once IGETS adopts producer calibration files.

The rationale for these gcf’s is outlined in Slides 6-9 of the paper I gave in Trieste 2016 [crossley\_murphy\_talk308.pptx]. I have a program to modify the gcf’s to accept/reject different step amplitudes as required (e.g. to ignore small steps introduced by ICET).

**Remark**

This approach is one way I can see to integrate the ICET-produced raw data files (1 min) with the requirement that IGETS generate long-period Level 3 data. There may be other ways, but I have not seen any so far. If adopted, the ICET products need to have continuing software support from J.-P. Barriot.

David Crossley, March 28, 2018.