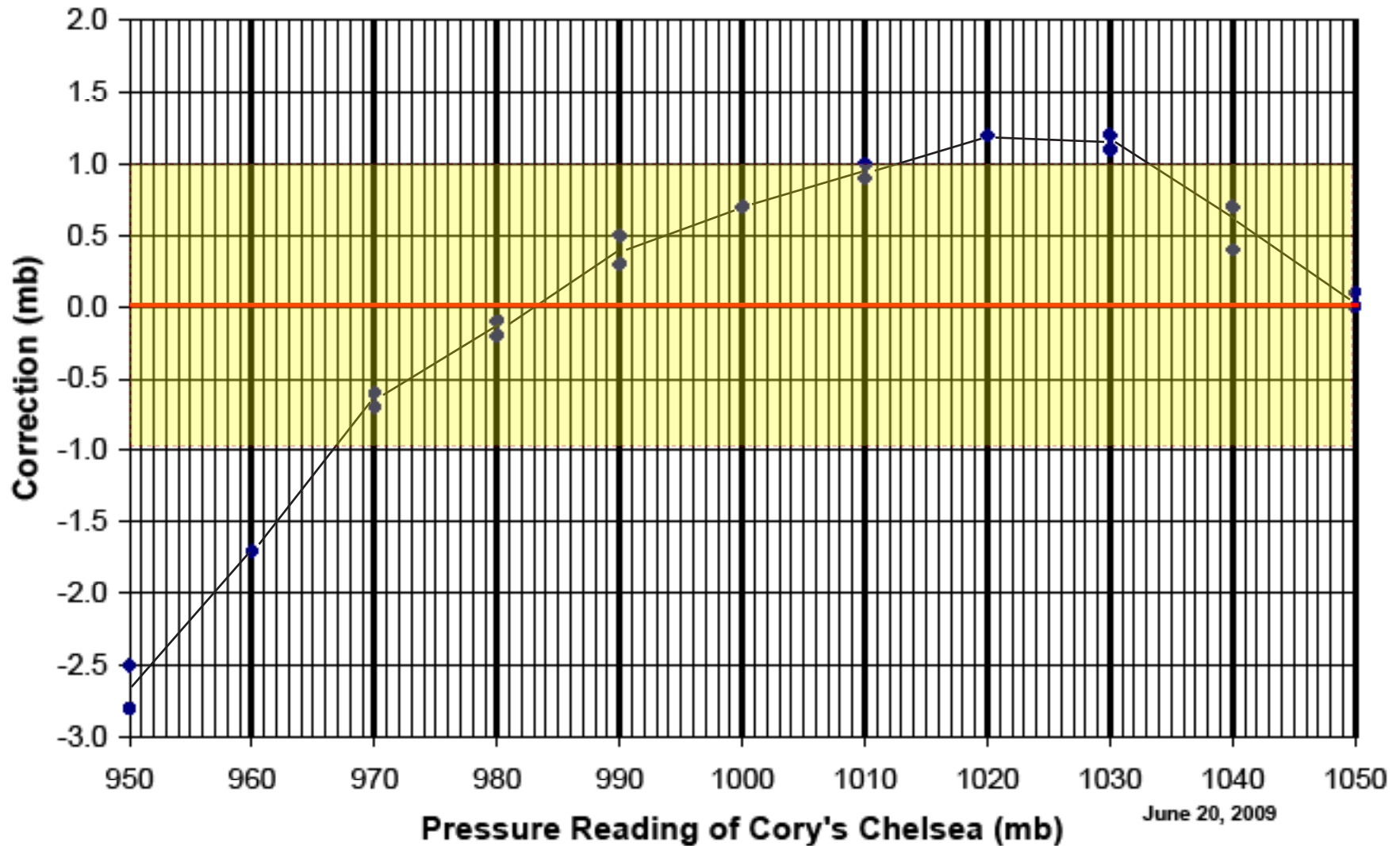


ie, when the barometer reads 1000.0 the true pressure is 1000.7



This instrument is a 5" Chelsea from the mid 80's. The calibration was done at 76°F. The ambient pressure was 1006. From there, the pressure was dropped in 5 min to 950 where it set for 10 min, then measurements were made every 10 mb, about 5 min apart with increasing pressure. At 1050 the pressure set for 20 min then the process was repeated going down. The scatter in the points shows the up-down difference, which could easily be measurement errors in this quick check. We have records of making a similar measurement of a different, but identical instrument when it was new, and we got similar results. This instrument is shown in Figure 4.8-3 of *The Barometer Handbook* by David Burch. Notice that this instrument is correct to within about ± 1 mb from 965 to 1050 mb, and with the use of this table the accuracy would be better than half of that.