

Supplementary Material for 'Wave Setup at Tristan da Cunha'

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This file contains supplementary figures mentioned in the paper.

SF1. (a) Hourly tidal residuals of sea level measured by the OTT radar gauge, adjusted using NCEP air pressures as described in the text, for June-July 2011. The tidal residuals are the adjusted sea levels themselves minus their tidal component derived from a tidal analysis of the whole radar-derived time series for 2011-2013. (b) Residuals for May 2012.

SF2. (a) Six-hourly significant wave height at Tristan during 1993-1997 obtained from the ERA-Interim reanalyses of ECMWF, (b) wave direction (the direction from which waves arrive measured clockwise from north), and (c) wave period. (d-f) As for figures (a-c) selecting only those occasions when there were positive spikes in the 1-hour tide gauge residuals larger than 25 cm (or 25 mbar in terms of SSP).

SF3. (a) A histogram of all tide gauge residuals during 1993-1997, and (b) a histogram of 6% of the residuals, selecting large waves (SWH > 4 m) and from the northerly direction (direction 270° - 45°).

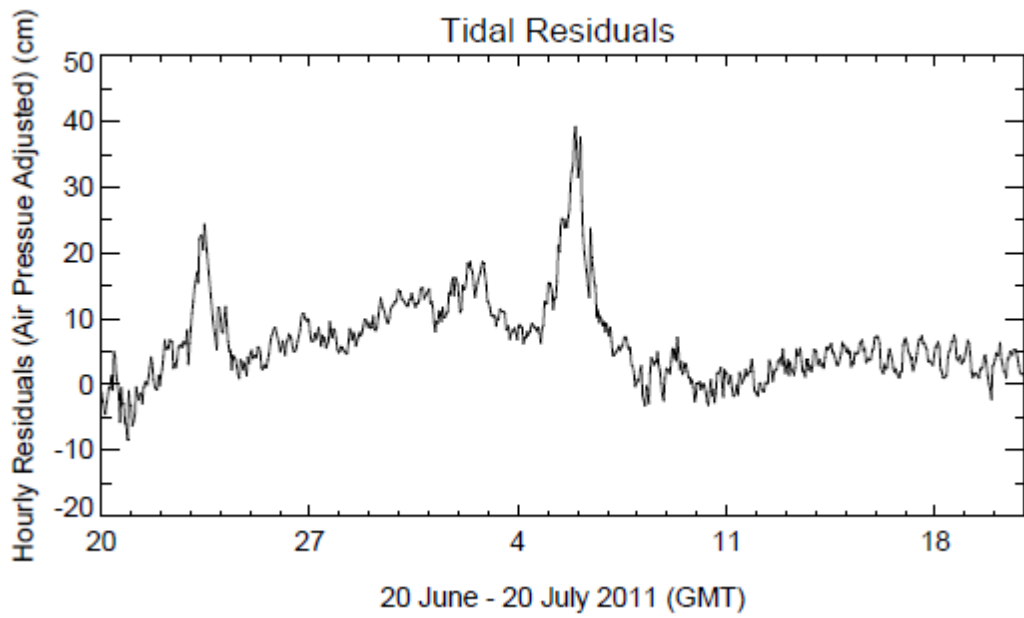


Figure SF1(a)

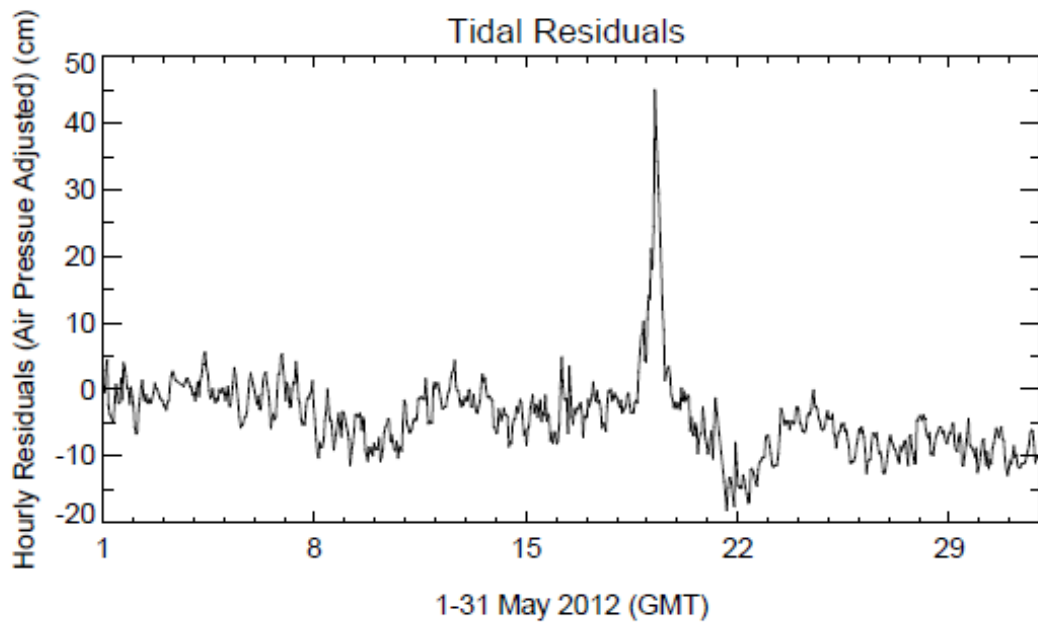


Figure SF1(b)

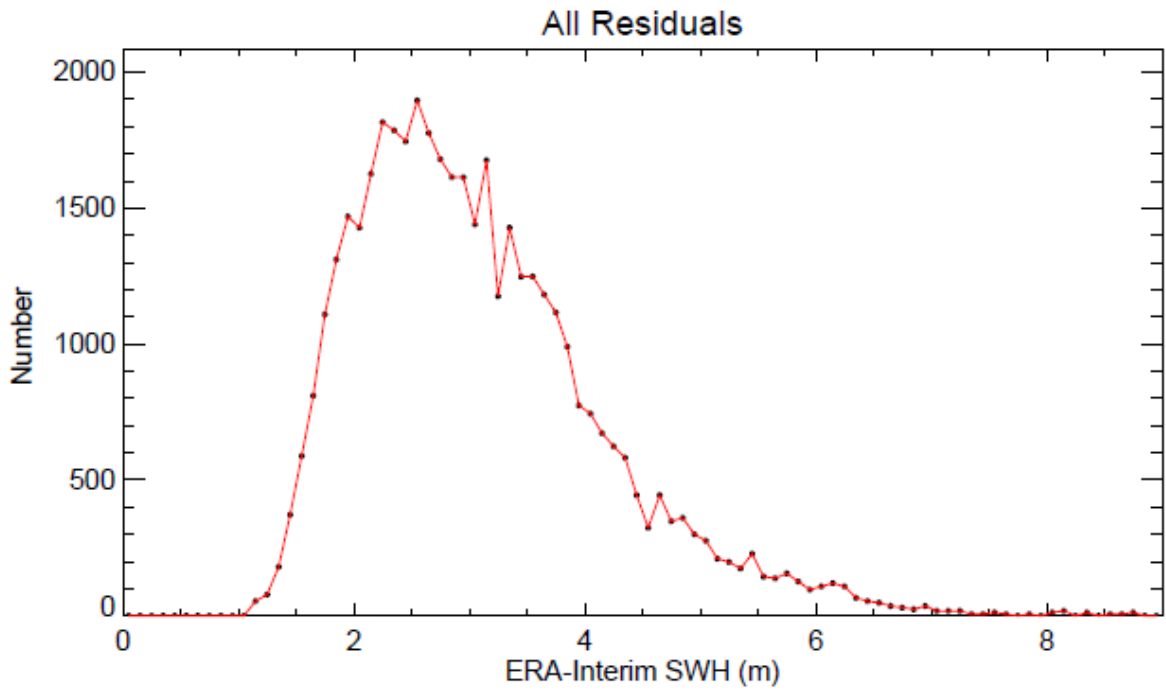


Figure SF2(a)

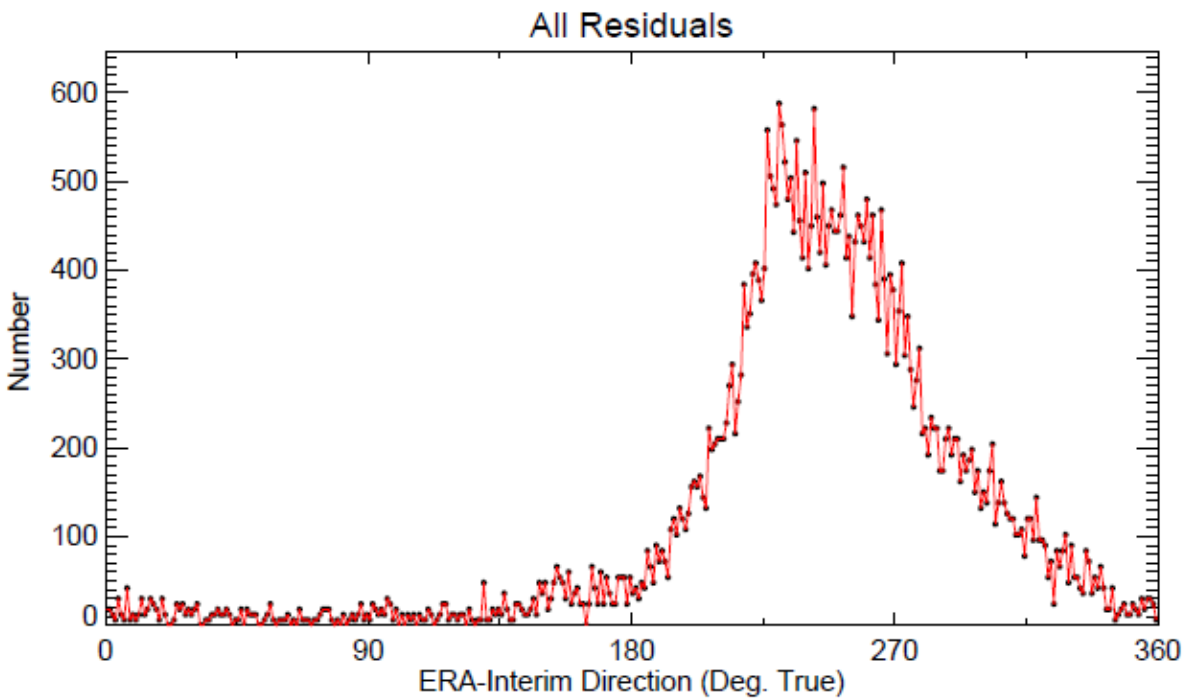


Figure SF2(b)

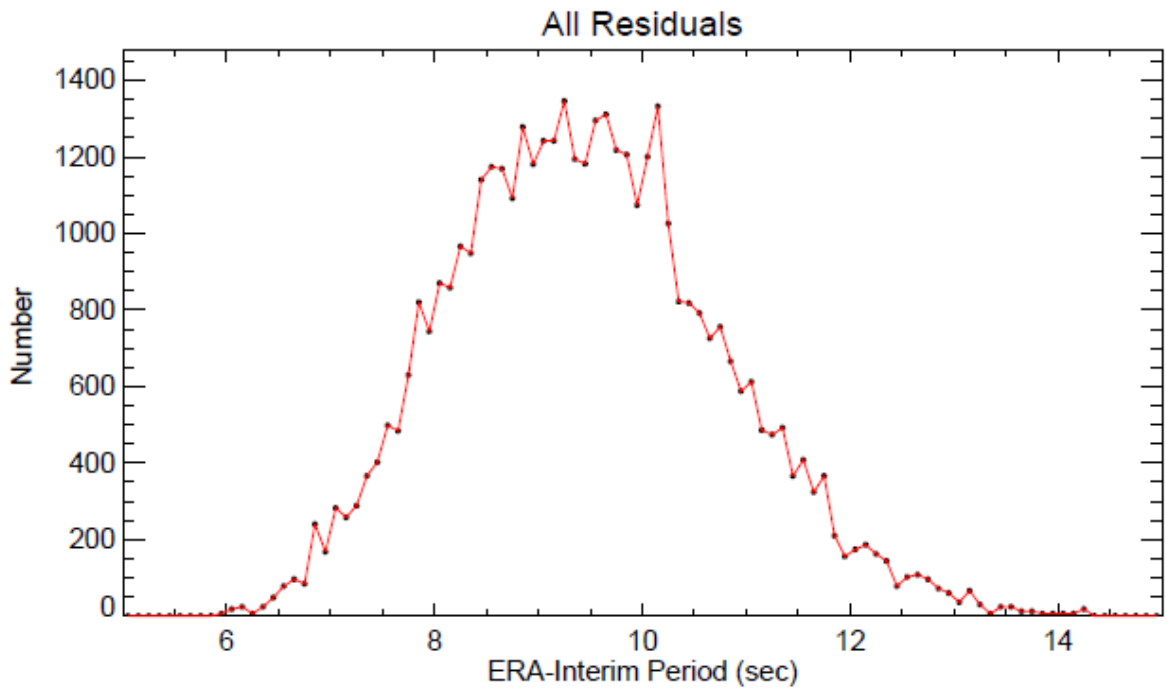


Figure SF2(c)

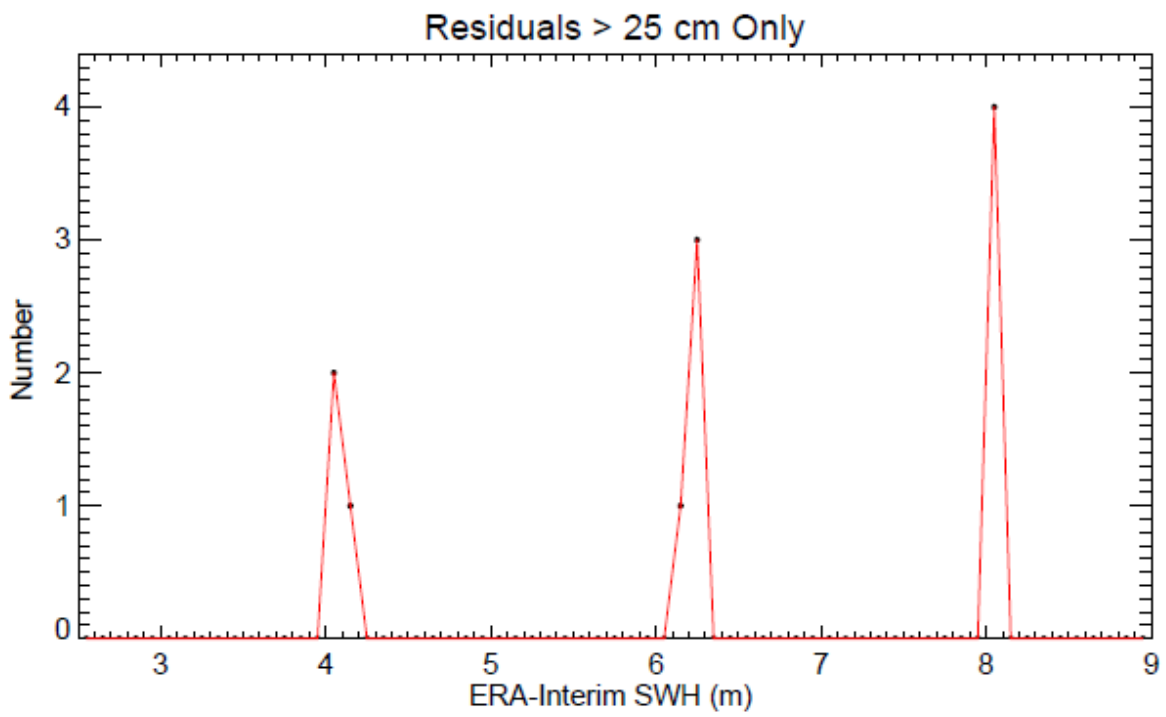


Figure SF2(d)

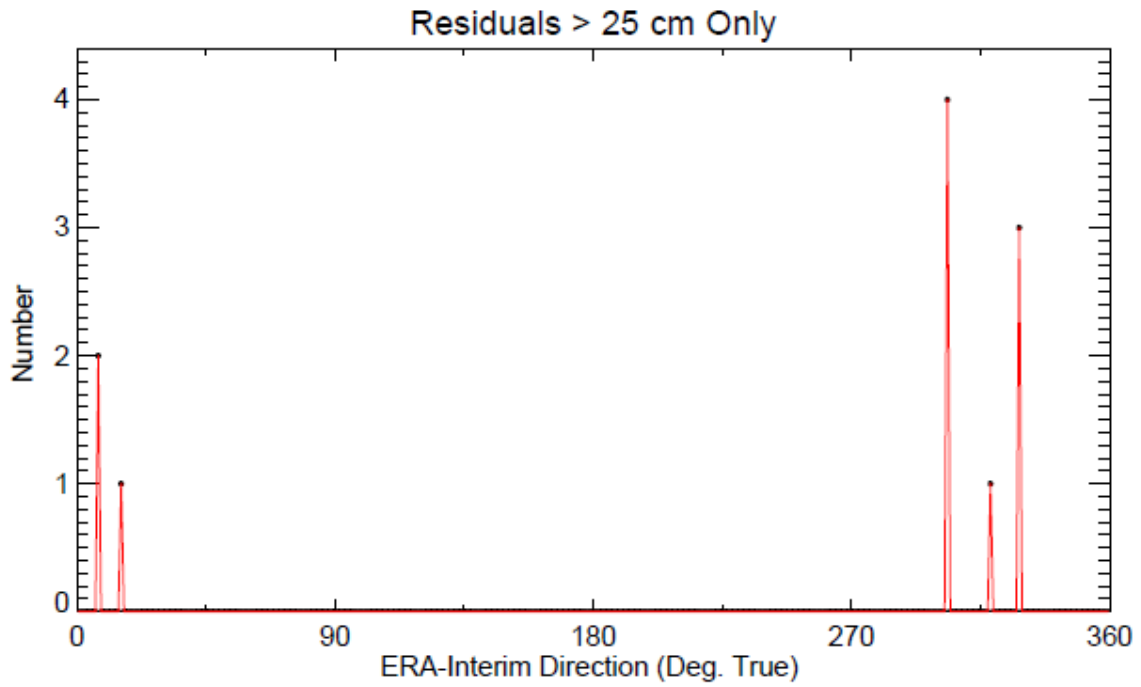


Figure SF2(e)

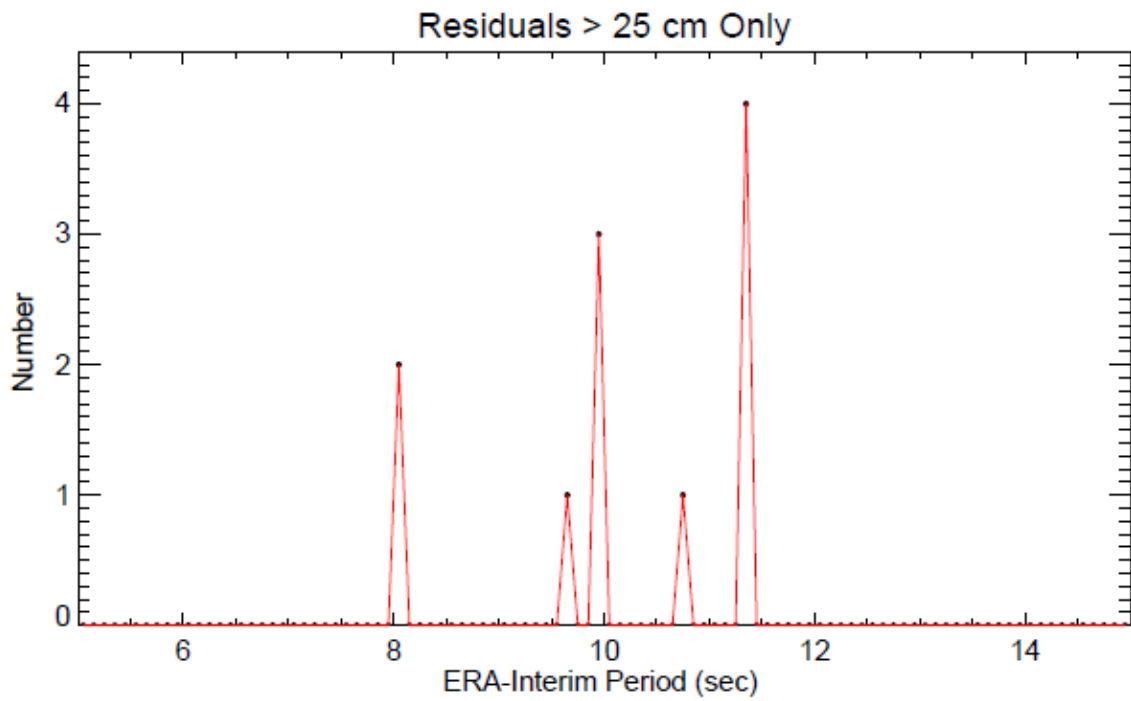


Figure SF2(f)

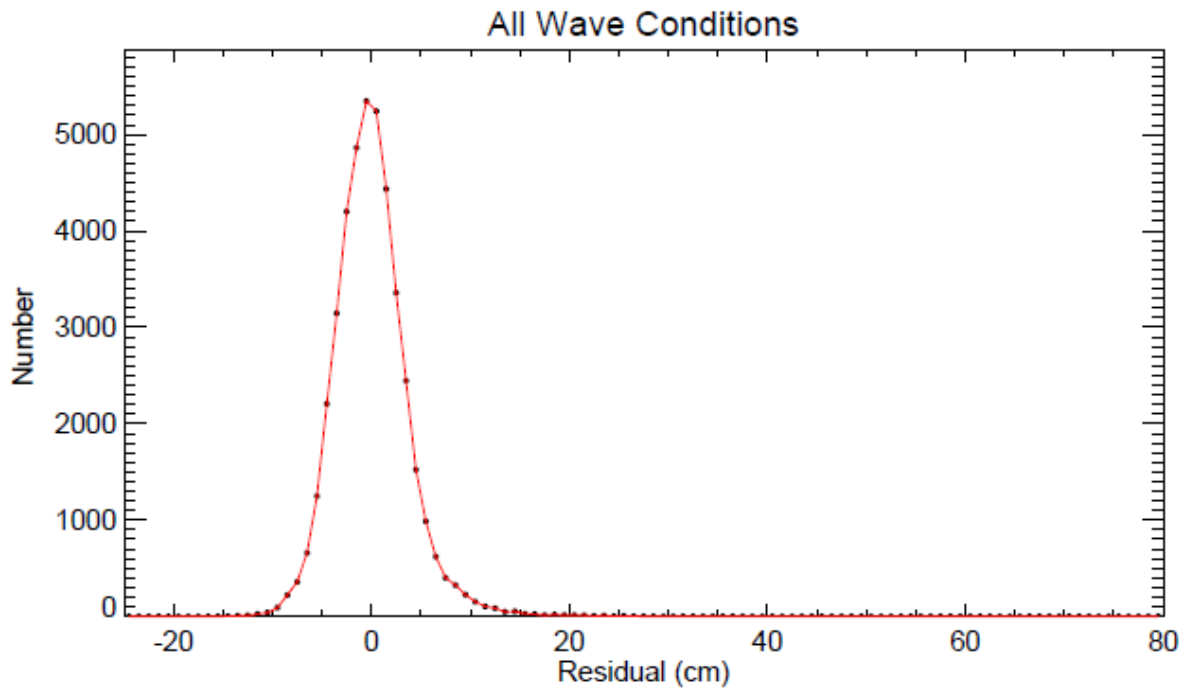


Figure SF3(a)

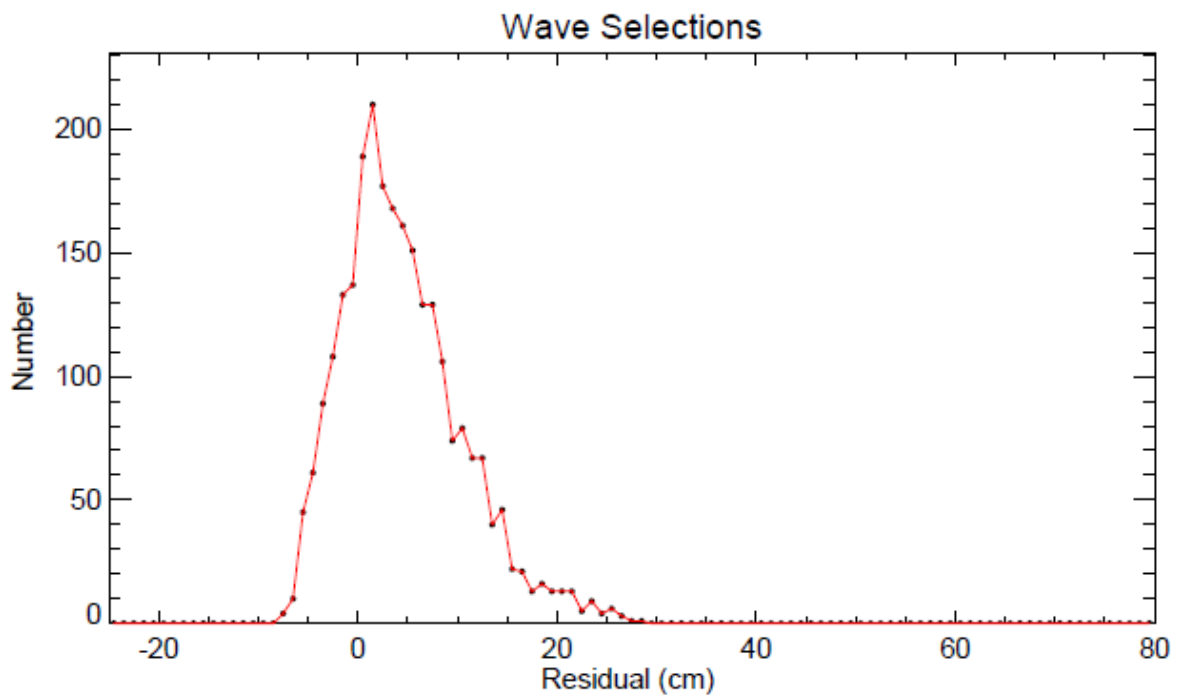


Figure SF3(b)