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Figures S1 to S2

Introduction

In the main text we show two figures (9 and 10) for the L1 signal from PRN 18 at site KYDH. They show how the estimated heights from GNSS – Multipath Reflectometry vary as a function of satellite elevation and day of year. Also shown are the predicted variations as computed from the VMF1/GPT2 model. In this supporting information we show a similar set of figures for the L2C signal of PRN12.
**Figure S1.** Estimated and Simulated residuals results for the L2C signal of PRN 12. Top. Least squares fit of an intercept and annual signal to the residual height estimation after lake level variations have been removed for each individual satellite elevation band. Blue dots are the residuals for the 8.5° elevation band. Bottom. Least squares fit of an intercept and annual signal to the delays estimated using VMF/GPT2. Blue dots are the residuals for the 8.5° elevation band.
Figure S2 Top Left Panel. Estimated height above Lake Level from individual satellites for a range of elevation bins for L2C. Also shown is the predicted height from the VMF/GPT2 model. Top Right. Estimated day of the year the trough in the annual signal occurs. Bottom Left Panel. Estimated Annual amplitude. Bottom Right Panel. Estimated RMS after intercept and annual signal have been removed.