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Supplement of

Tidal variability in the Hong Kong region

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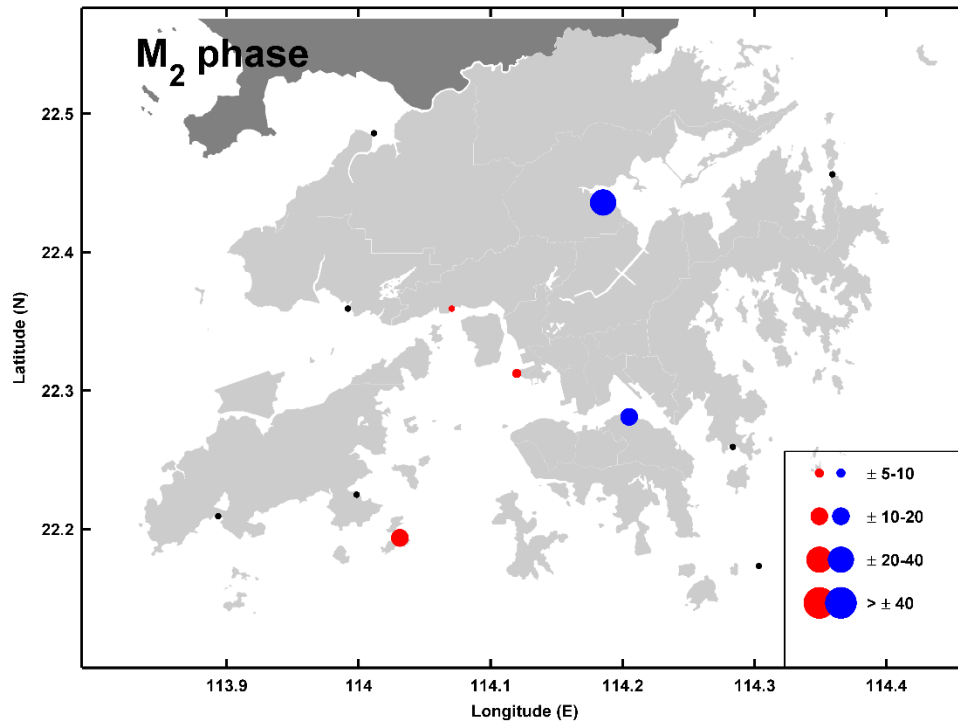


Figure S1 Semidiurnal tidal anomaly correlations (TACs) of detrended M_2 phase to detrended MSL in Hong Kong, with the marker size showing the relative magnitude according to the legend, in units of deg m^{-1} . Red/blue markers indicate positive/negative TACs, and black markers indicate TACs which are not significantly different from zero.

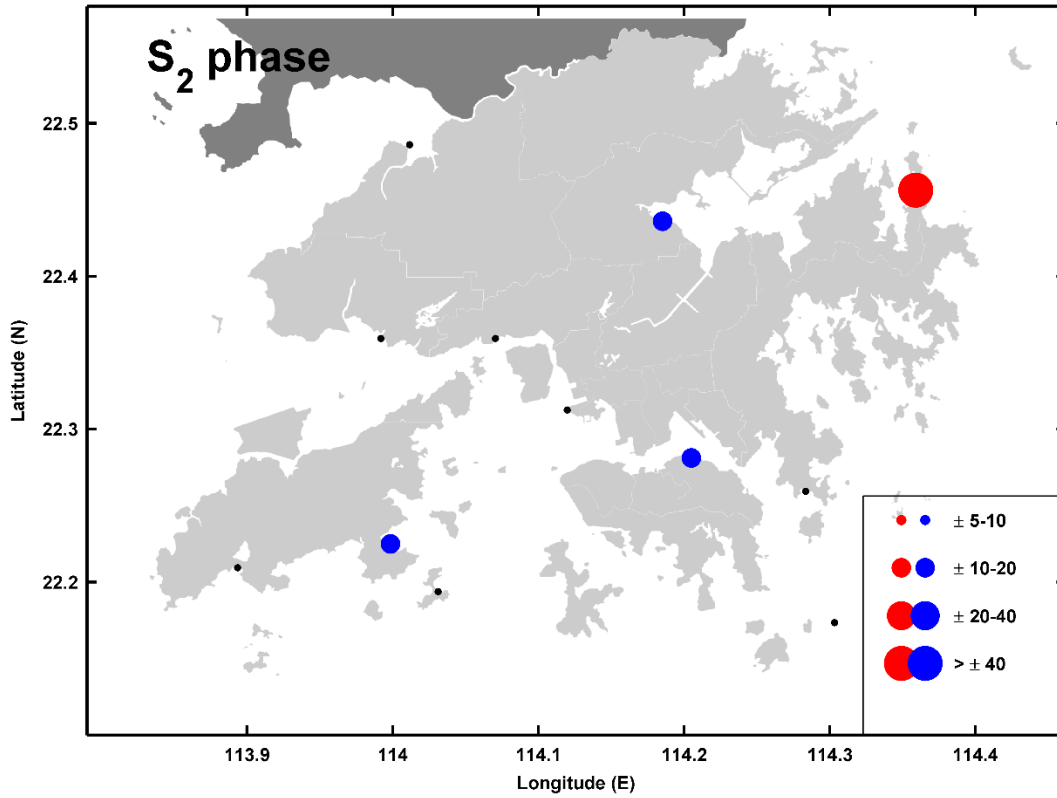


Figure S2 Semidiurnal tidal anomaly correlations (TACs) of detrended S₂ phase to detrended MSL in Hong Kong, with the marker size showing the relative magnitude according to the legend, in units of deg m⁻¹. Red/blue markers indicate positive/negative TACs, and black markers indicate TACs which are not significantly different from zero.

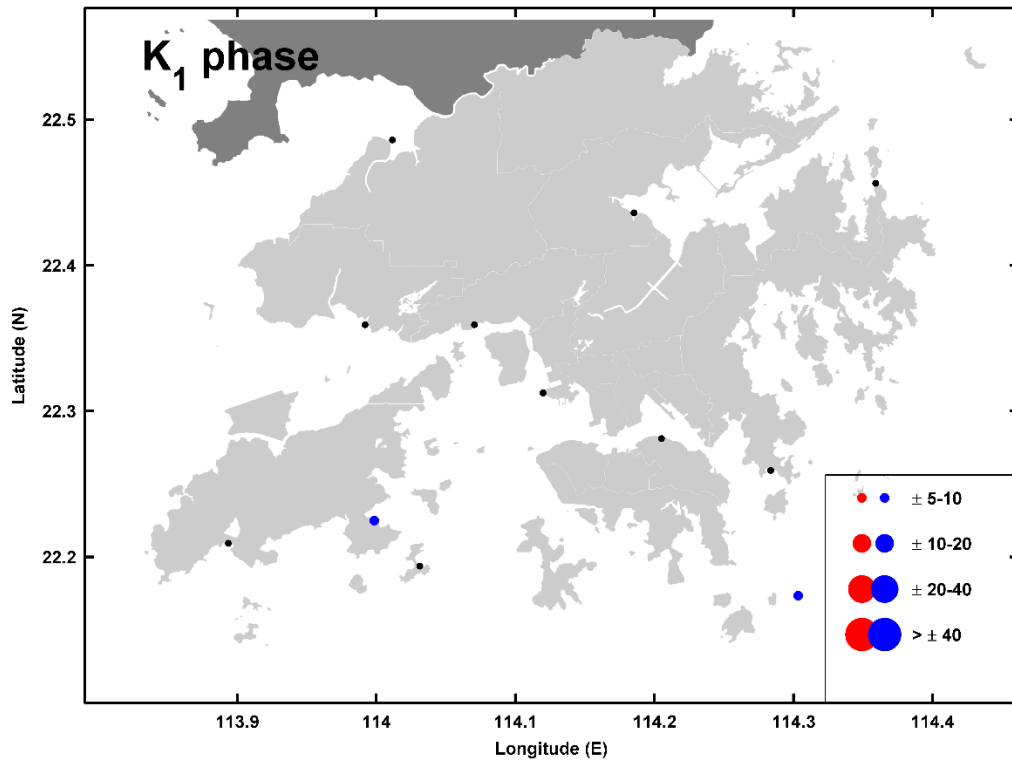


Figure S3 Diurnal tidal anomaly correlations (TACs) of detrended K_1 phase to detrended MSL in Hong Kong, with the marker size showing the relative magnitude according to the legend, in units of deg m^{-1} . Red/blue markers indicate positive/negative TACs, and black markers indicate TACs which are not significantly different from zero.

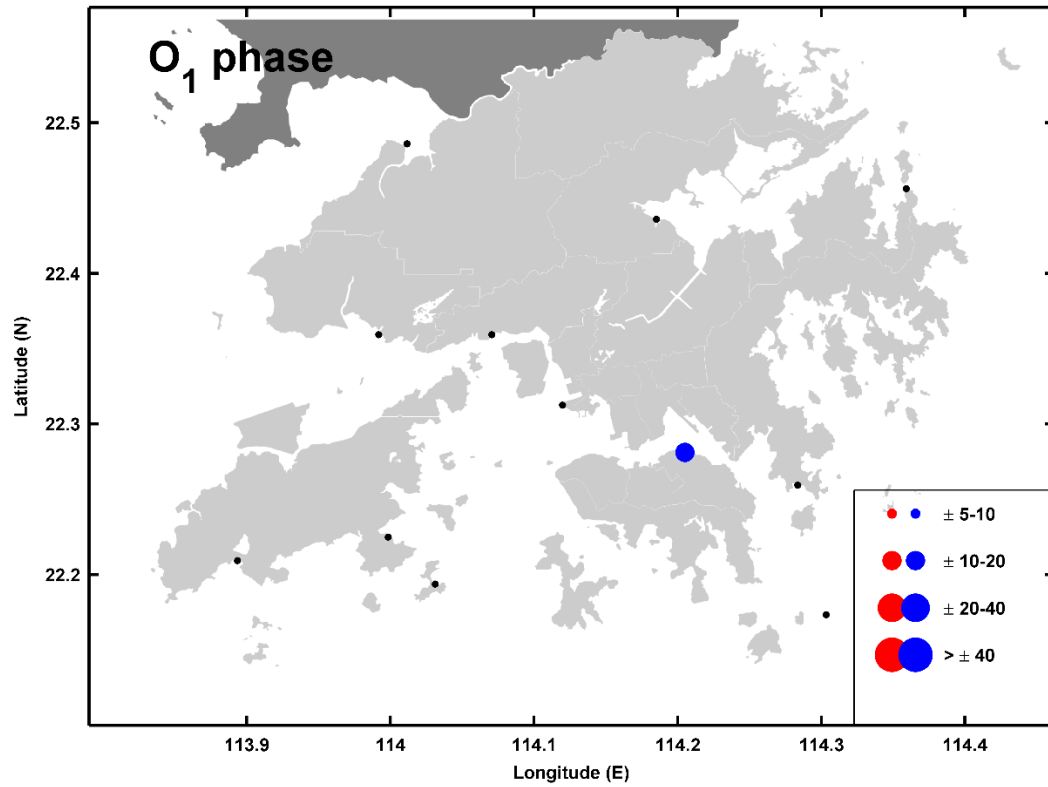


Figure S4 Diurnal tidal anomaly correlations (TACs) of detrended O₁ phase to detrended MSL in Hong Kong, with the marker size showing the relative magnitude according to the legend, in units of deg m⁻¹. Red/blue markers indicate positive/negative TACs, and black markers indicate TACs which are not significantly different from zero.

Table S1 Phase TACs for M₂, S₂, K₁, and O₁. All values given are in units of degree change in the tidal phase for a 1-meter fluctuation in sea-level (deg m⁻¹). Statistically significant values are given in bold italic text.

<i>Station</i>	M₂ TAC	S₂ TAC	K₁ TAC	O₁ TAC
<i>Quarry Bay (QB)</i>	-15 ± 2	-17 ± 5	-4 ± 2	-11 ± 1
<i>Tai Po Kau (TPK)</i>	-28 ± 6	-18 ± 3	-6 ± 4	-13 ± 4
<i>Tsim Bei Tusi (TBT)</i>	+19 ± 13	+19 ± 17	+6 ± 5	+5 ± 4
<i>Chi Ma Wan (CMW)</i>	-5 ± 5	-16 ± 2	-7 ± 4	-3 ± 1
<i>Cheung Chau (CHC)</i>	+13 ± 2	+23 ± 15	+39 ± 36	+1 ± 13
<i>Lok On Pai (LOP)</i>	-2 ± 4	-15 ± 9	+1 ± 6	+3 ± 6
<i>Ma Wan (MW)</i>	+9 ± 2	+9 ± 8	+2 ± 13	-4 ± 5
<i>Tai Miu Wan (TMW)</i>	+4 ± 8	+2 ± 9	+1 ± 7	+2 ± 3
<i>Shek Pik (SP)</i>	-11 ± 6	-10 ± 12	-6 ± 6	+12 ± 2
<i>Waglan Island (WAG)</i>	-40 ± 30	+12 ± 2	+6 ± 1	+4 ± 3
<i>Ko Lau Wan (KLW)</i>	+7 ± 3	+43 ± 22	+10 ± 15	-3 ± 5
<i>Kwai Chung (KC)</i>	+8 ± 2	+45 ± 20	+29 ± 52	-9 ± 23