

Supporting Information for

Observations of hydrodynamic processes on atolls in the South China Sea with deep reef flats (> 10m) with implications for sediment transport potential

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Introduction

The supplementary material provides information on suspended sediment concentrations obtained by water samples collected at the Xiaonanxun, Anda, and Kugui Reefs, shown in Tables S2-S4. The water level, water temperature, salinity, and turbidity were obtained by an SD204 CTD, shown in Figures S1-S3. The Particle size and shape were obtained by dynamic image analysis on the seabed sediment sample collected around the tripod at the TX site shown in Table S5 and Figure S4.

Table S1. Notation and unit of variables involved in the calculations

Notation	Variable	Unit
d_{50}	Median grain diameter	m
f_{ws}	Wave friction factor related to sediment grain	[]
f_{cws}	Grain-related friction factor in terms of combined bed shear velocities	[]
g	Gravity acceleration	m/s ²
h	Water level (water surface elevation)	m
η	Water surface elevation	m
H_s	Significant wave height	m
L	Wave length	m
k	Wave number	m ⁻¹
k_b	Total physical roughness height	m
k_{bs}	Grain-related roughness height	m
k_{br}	Ripple-related roughness height	m
k_{bt}	Bedload-related roughness height	m
q_{bx}	Current-perpendicular component of bedload sediment transport rate by waves combined with currents	m ² /s
S_{uv}	Combined horizontal velocity spectrum	kg*m ² /s ⁴
f	Wave frequency	s ⁻¹
T_p	Peak wave period	s
u_{br}	Representative near-bed orbital velocity	m/s
$u_{0.5}$	current velocity at height $z_I = 0.5$ m above the sandy seabed	m/s
u_1	Near-bed wave-driven Stokes drift	m/s
u_2	Wave streaming velocity	m/s
U_{10}	Wind speed at 10 m above sea level	m/s
u^*_{cr}	Critical shear velocity for initiation of bedload transport	m/s
u^*_{bo}	Critical shear velocity for initiation of ripple breakoff (suspended load transport)	m/s
u^*_{sf}	Critical shear velocity for initiation of upper-plane sheet-flow transport	m/s
u^*_c	Total current shear velocity	m/s
u^*_{cs}	Skin-friction (grain-related) current shear velocity	m/s
u^*_{ws}	Skin-friction (grain-related) wave shear velocity	m/s
u^*_{cw}	Total combined wave current shear velocity	m/s
u^*_{cws}	Skin-friction (grain-related) combined wave current shear velocity	m/s
u^*_{cwb}	Bedload-related combined wave current shear velocity	m/s
u^*_{cwe}	Enhanced combined wave current shear velocity by preceding ripples	m/s
β_w	Wave propagation direction	degree
ϕ_{cw}	Angle between wave and current direction	degree
Φ_x	Dimensionless form of current-parallel component of bedload transport rate q_b in the ENU coordinate	[]

Φ_y	Dimensionless form of current-perpendicular component of bedload transport rate q_b in the ENU coordinate	[]
Φ_{x1}	(dimensionless form) Current-dominated current-parallel component of bedload transport rate	[]
Φ_{x2}	(dimensionless form) Wave-dominated current-parallel component) of bedload transport rate	[]
η	Ripple wave height	m
λ	Ripple wavelength	m
ρ_o	Seawater density	kg/m ³
ρ_s	Reef sediment density	kg/m ³
θ_{cws}	Shields parameter of skin-friction combined wave current shear velocity	[]
θ_{cr}	Threshold Shields parameter of bedload transport	[]
ν	kinematic viscosity of water	m ² /s

Table S2. Suspended sediment concentration (mg/L) obtained from water sampling in the surface, middle, and bottom water layers at Xiaonanxun Reef

Sampling time	Surface	Middle	Bottom
2017/9/2 15:00	0.00	0.00	0.00
2017/9/2 16:00	0.00	0.00	0.00
2017/9/2 17:00	0.00	0.00	0.26
2017/9/2 18:00	0.00	0.21	0.00
2017/9/2 19:00	10.30	0.83	0.74
2017/9/2 20:00	0.53	0.00	2.19
2017/9/2 21:00	0.00	0.00	1.32

Table S3. Suspended sediment concentration (mg/L) obtained from water sampling in the surface, middle, and bottom water layers at Anda Reef

Sampling time	Surface	Middle	Bottom
2017/9/5 13:00	0.00	3.07	0.00
2017/9/5 19:00	0.00	0.00	0.00
2017/9/5 22:00	0.00	0.00	0.00
2017/9/6 7:00	0.00	0.00	0.94
2017/9/6 10:00	1.63	7.74	0.00
2017/9/6 13:00	2.24	0.08	1.09

Table S4. Suspended sediment concentration (mg/L) obtained from water sampling in the surface, middle, and bottom water layers at Kugui Reef

Sampling time	Surface	Middle	Bottom
2017/9/7 14:00	0.00	0.00	0.69
2017/9/7 17:40	0.00	0.00	0.00
2017/9/7 20:00	0.22	0.00	0.00
2017/9/7 23:00	8.20	0.00	0.66
2017/9/8 2:00	9.15	8.41	0.00
2017/9/8 5:00	8.32	8.10	8.43
2017/9/8 8:00	8.08	7.89	8.12
2017/9/8 11:00	9.86	16.02	7.85
2017/9/8 13:50	8.13	8.08	8.00
2017/9/8 17:00	8.33	10.76	7.45
2017/9/8 20:00	2.55	1.76	1.49

Table S5. Particle size and shape obtained by dynamic image analysis using CAMSIZER

Size(μm)	Frequency(%)	Sphericity	Corey shape factor	Particle number counted
88.4	0.09	0.86	0.75	54667
176.8	0.25	0.86	0.76	1088
353.6	2.80	0.84	0.76	1635
707.1	20.69	0.80	0.74	1599
1414.2	47.88	0.77	0.71	636
2828.4	28.28	0.71	0.66	51

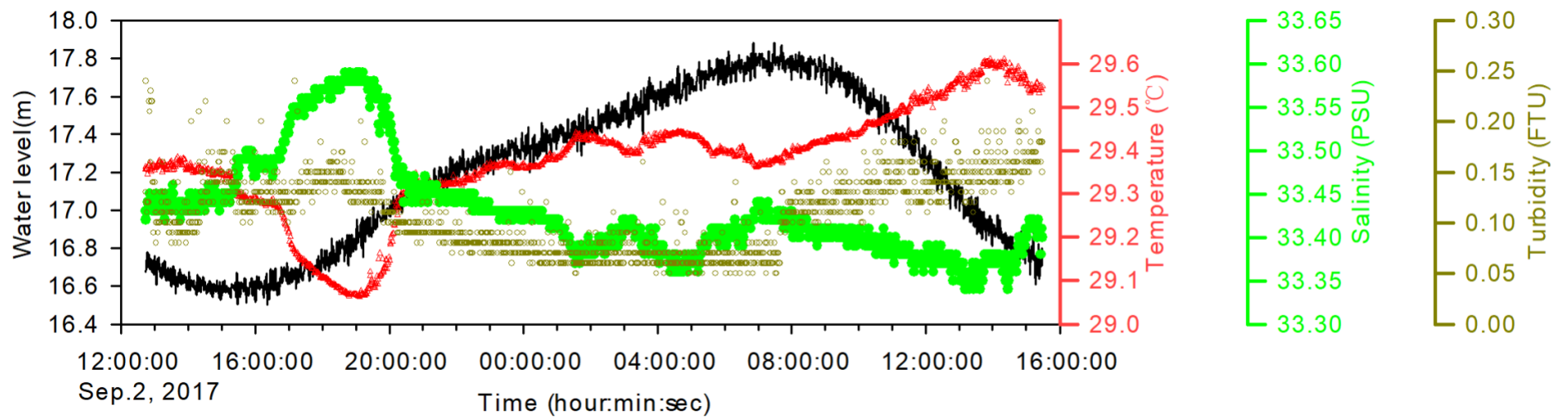


Figure S1. Temperature, salinity, and turbidity observed with SD204 CTD installed at the bottom tripod with sensors 0.8 m above the seabed at Xiaonanxun Reef

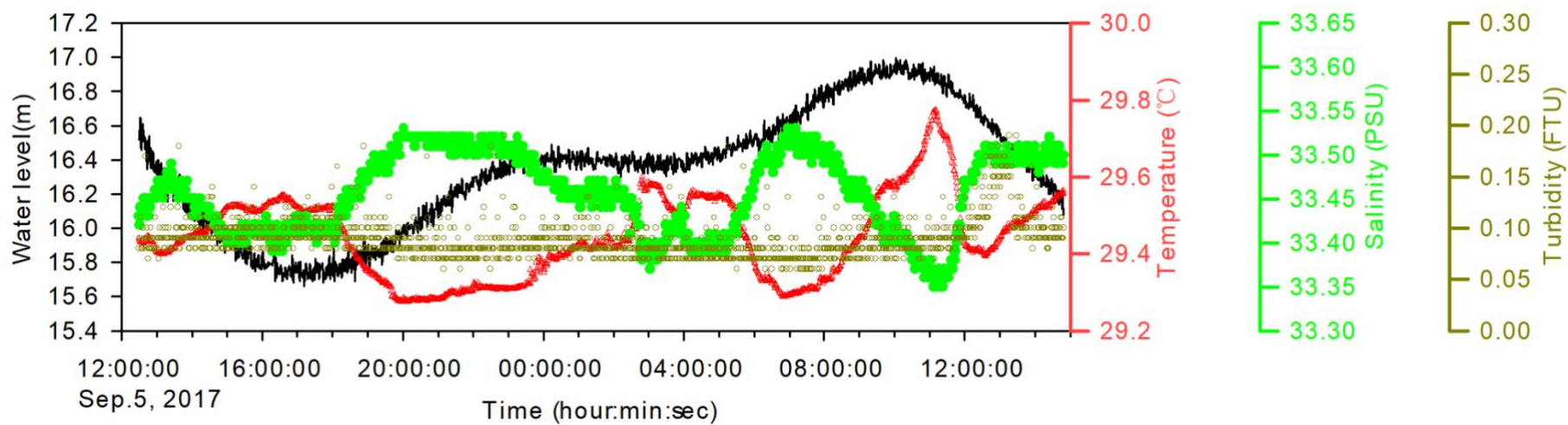


Figure S2. Temperature, salinity, and turbidity observed with SD204 CTD installed at the bottom tripod with sensors 1.2 m above the seabed at Anda Reef

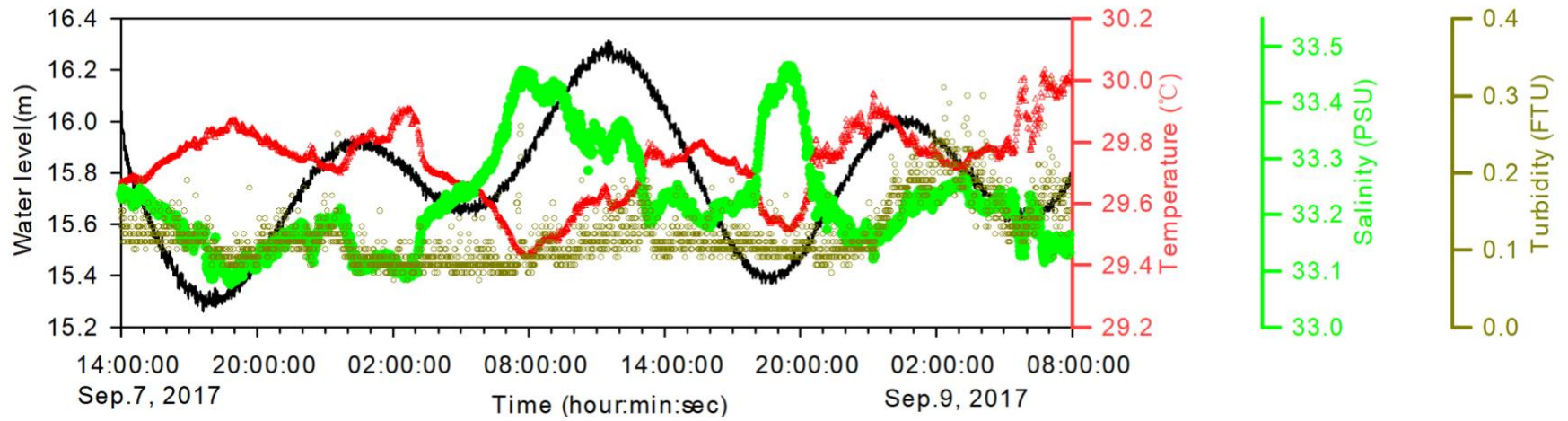


Figure S3. Temperature, salinity, and turbidity observed with SD204 CTD installed at the bottom tripod with sensors 1.0 m above the seabed at Kugui Reef





















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b/l	0.5878																																																																																																																																																																																						
b/l_rec	0.5878																																																																																																																																																																																						
B/L	0.6132																																																																																																																																																																																						
B/L_rec	0.6136																																																																																																																																																																																						
Symm	0.8542																																																																																																																																																																																						
SPHT	0.7547																																																																																																																																																																																						
SPHT_K	0.6136																																																																																																																																																																																						
RDNS_C	0.2658																																																																																																																																																																																						
Conv	0.9748																																																																																																																																																																																						
Trans	0.0063																																																																																																																																																																																						
Trans_a	0.0000																																																																																																																																																																																						
Trans_b	0.0000																																																																																																																																																																																						

Figure S4. Particle size and shape obtained by dynamic image analysis on the seabed sediment sample collected around the tripod at the TX site, using CAMSIZER (a product of Microtrac MRB, Germany).