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Fate of Ayeyarwady and Thanlwin River Sediment: Relative Importance of Oceanographic and Tectonic Controls - Associated Dataset

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Fate of Ayeyarwady and Thanlwin River Sediment: Relative Importance of Oceanographic and Tectonic Controls - Associated Dataset

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Abstract:

Data set archive associated with Kuehl et al. (2019) collected as part of NSF award OCE-1737221. Core and CTD data are from a two-week oceanographic research cruise which was conducted in December 2017 in the Northern Andaman Sea and Bay of Bengal, using a locally hired vessel. Overall, we occupied 30 stations and collected ~50 sediment cores (kasten, gravity and box), along with CTD profiles on the shelf and inside the Yangon River estuary. The area covered includes both the western and eastern sides of the delta, almost 250 nm across, and southward across the continental shelf to a major submarine canyon at the shelf edge in the northern Andaman Sea. The data set represents both electronic and physical archives.

DOI: <https://doi.org/10.25773/g7zk-sg96>

Description:

Core data files and all station locations are in .xlsx format. CTD data is both in native format (Instrument model: RBR XRX-620) and in xls. Matlab files (.mat) include CTD processing routine and regional bathymetry. Maps and X-Radiographs are image files (.jpg, .png).

File Description Table:

File/Folder Name	Description
Coring Locations and Subsample Inventory	Locations of sediment cores collected during December 2017 off the Ayeyarwady Delta. Physical sample inventory for whole cores and subsamples housed at VIMS as of December 2020.
CTD Profile Figures	CTD Data Plots with Depth in Water Column
CTD Data	Data files of Conductivity, Temperature, Pressure and Voltage from Optical Backscatter Sensor. Locations of CTD casts. Data processing routine.
Gravity Core X-Ray Radiographs	X-Ray Radiographs of gravity cores collected off the Ayeyarwady Delta during December 2017
README	CTD Meta Data

Data Link: Go to <https://doi.org/10.25773/g7zk-sg96>

Keywords:

Northern Andaman Sea, Bay of Bengal, Ayeyarwady Delta, Sediment samples, CTD data, X-Radiographs

Funding:

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Associated Publications

Kuehl, S.A., Yang, S., Yu, F., Copard, Y., Liu, J., Nittrouer, C.A., and Xu, J. 2020. Asia's Mega Rivers: Common Source, Diverse Fates, EOS, 101, <https://doi.org/10.1029/2020EO143936>

Liu, J.P., Kuehl, S.A., Pierce, A.C., Williams, J., Blair, N.E., Harris, C., Aung, D.W. and Aye, Y.Y. 2020. Fate of Ayeyarwady and Thanlwin Rivers Sediments in the Andaman Sea and Bay of Bengal. *Marine Geology*, 423, 106137, doi: 10.1016/j.margeo.2020.106137.

Kuehl, S.A., Williams, J., Liu, J.P., Harris, C., Aung, D.W., Tarpley, D., Goodwyn, M. and Aye, Y.Y. 2019. Sediment dispersal and accumulation off the Ayeyarwady delta – tectonic and oceanographic controls. *Marine Geology*, 417, doi:10.1016/j.margeo.2019.106000

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