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| **Table 4.** Comparison of sedimentation rates between Tubes and SedPod deployments in similar fringing reefs embayments | | | | | | |
| **Reference** | **Study Site** | **Number of traps** | **Sample Interval** | **Deployment Time (d)** | **Tube Trap (g m-2d-1)** | **SedPod (g m-2d-1)** |
| This study | Faga’alu, American Samoa | 9 | 24-53 d (mean=36) | 1 year | 1-623  (Mean totals varied from 13-269) | 0-40  (Mean totals varied from 0.0-12.4) |
| Bothner et al., (2006) | South Molokai, Hawaii | 8 | ~90 (STTa) | 2 year | 5-4,000 (non-storm)  >7,400 (storm) | - |
| 2 | 4.5 d (RSTb) | 2 year | 1.5-1,800 |
| Storlazzi et al., (2009) | Hanalei Bay, Kauai, Hawaii | 4 | ~90 (STT) | 90 d | 177-636  Mean:365±213 | - |
| 2 | 4.5 d (RST) | 90 d | 5- 510  Mean:87±123; 47±43 |
| Field et al., (2012) | Hanalei Bay, Kauai, Hawaii | 1 | 36; 60 d (STT) | 96 d | 67-172 | 3.5-6 |
| 1 | 4.5 d (RST) | 96 d | Not reported |
| Gray et al., (2012) | St. John, USVI | 11 | 26 d | 3-5 year | 1 to >5,000 (Means ranged from 0-400) \*\*terrigenous fraction only | - |
| a. STT = Simple Tube Trap  b. RST = Rotating Tube Trap | | | | | | |

Bothner, M.H., Reynolds, R.L., Casso, M.A., Storlazzi, C.D., Field, M.E., 2006. Quantity, composition, and source of sediment collected in sediment traps along the fringing coral reef off Molokai, Hawaii. Mar. Pollut. Bull. 52, 1034–47. doi:10.1016/j.marpolbul.2006.01.008

Field, M.E., Chezar, H., Storlazzi, C.D., 2012. SedPods: a low-cost coral proxy for measuring net sedimentation. Coral Reefs 1–5.

Gray, S.C., Sears, W., Kolupski, M.L., Hastings, Z.C., Przyuski, N.W., Fox, M.D., Degrood, A., 2012. Factors affecting land-based sedimentation in coastal bays, US Virgin Islands, in: 12th International Coral Reef Symposium. Cairns, Australia, pp. 9–13.

Storlazzi, C.D., Field, M.E., Bothner, M.H., Presto, M.K., Draut, A.E., 2009. Sedimentation processes in a coral reef embayment: Hanalei Bay, Kauai. Mar. Geol. 264, 140–151. doi:10.1016/j.margeo.2009.05.002