Outlines of IndOOS Review White Paper

1. Science Drivers

1.1. Effect of Indian Ocean on monsoon and monsoon onset (H. Annamalai, C. Ummenhofer)
1.2. Oxygen variability and change, oxygen minimum zones (J. Wiggert)
1.3. Upwelling, coastal/open ocean interactions, and ecosystems (Y. Masumoto, Weidong Yu)
1.4. Extreme events (cyclones, marine heat waves) (M. Lengaigne, M. Feng)
1.5. Intra-seasonal air-sea coupling (MJO, monsoon ISO, eddies) (T. Shinoda)
1.6. Interannual variability and its predictability: IOD, IOBM, subtropical IOD, Ningalo Nino (T. Tozuka)
1.7. Basin-scale heat and freshwater flux variability (L. Beal)
1.8. Carbon cycle, acidification, and eco/biological impacts (R. Hood)
1.9. Oceanic fluxes: Boundary currents and Indonesian Throughflow (M. Feng, D. Susanto, H. Phillips)
1.10. Decadal variability and predictability (J. Vialard)
1.11. Anthropogenic climate change (R. Mathew Koll)
1.12. Ocean productivity variability, predictability, & change (P. Strutton)
1.13. Hydrological cycle (C. Ummenhofer)
1.14. Regional sea-level variability and change (W. Han)

2. Operational Drivers

2.1. Improvement of seasonal prediction (H. Hendon, J-J.Luo)
2.2. Improvement of surface fluxes (Lisan Yu)
2.3. Improvement of ocean reanalyses (Tony Lee)

3. IndOOS Components and New Technologies

3.1. Past, present & future satellites in support of IndOOS (T.Lee)
3.2. Argo, including Deep & Bio Argo outlook (M. Ravichandran & N. Hardman-Mountford)
3.3. RAMA (M. McPhaden)
3.4. Surface drifters (R. Lumpkin)
3.5. XBT lines (M. Feng)
3.6. Tide gauges (U. Alakkat)
3.7. New technologies (C.Lee & M. Andres)
3.8. GoSHIP (B. Sloyan)
3.9. Sustained boundary arrays (L. Beal, M. Feng, B. Sloyan)