

Introduction to Oceanography

EAS 4300

Homework # 1

1) Choose one of the international or national programs.

(a) Identify two more specific objectives, (b) identify the types of observations required, (c) identify the technology involved, (d) list some of the major advances made towards the objective (selected), (e) list the interdisciplinary implications and aspects of the findings, (f) list at least 2 relevant publications.

2) Describe two amazing discoveries obtained with ROVs or AUVs, make sure to describe the unique role of the ROVs and the impact of the findings.

3) Isolate a phenomena of interest to you, either in the ocean or atmosphere. (a) Design a feasible observational strategy you think would be useful to study such phenomena (and indicate why your strategy is good). Describe what type of instrumentation you need, what spatial and temporal scales you are looking at, and what type of results you expect. (b) Try to find out or Guess how much it would cost!