



GROUP “D” NOTES

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1) Formulation and Quantification

- Formalize the concepts of variability, error, uncertainty, within and between disciplines
- Determine parametric dependencies and define and study sensitivities
 - Deterministic and stochastic
- Identify environmental features (and dynamical processes) and classify regions and times of large variability and uncertainty “hot spots.”
- Identify the dominant sources of uncertainty for a variety of operational scenarios



2) Operational Information and Exploitation

- Utilize/Optimize (under operational constraints) the use of fleet sensors/operations for environmental and acoustic assessment
 - Including fleet sensors
- Exploit non fleet information.
- Operationally useful products: maps, error maps, visualizations, training
- Real time, in situ data assimilation for products above



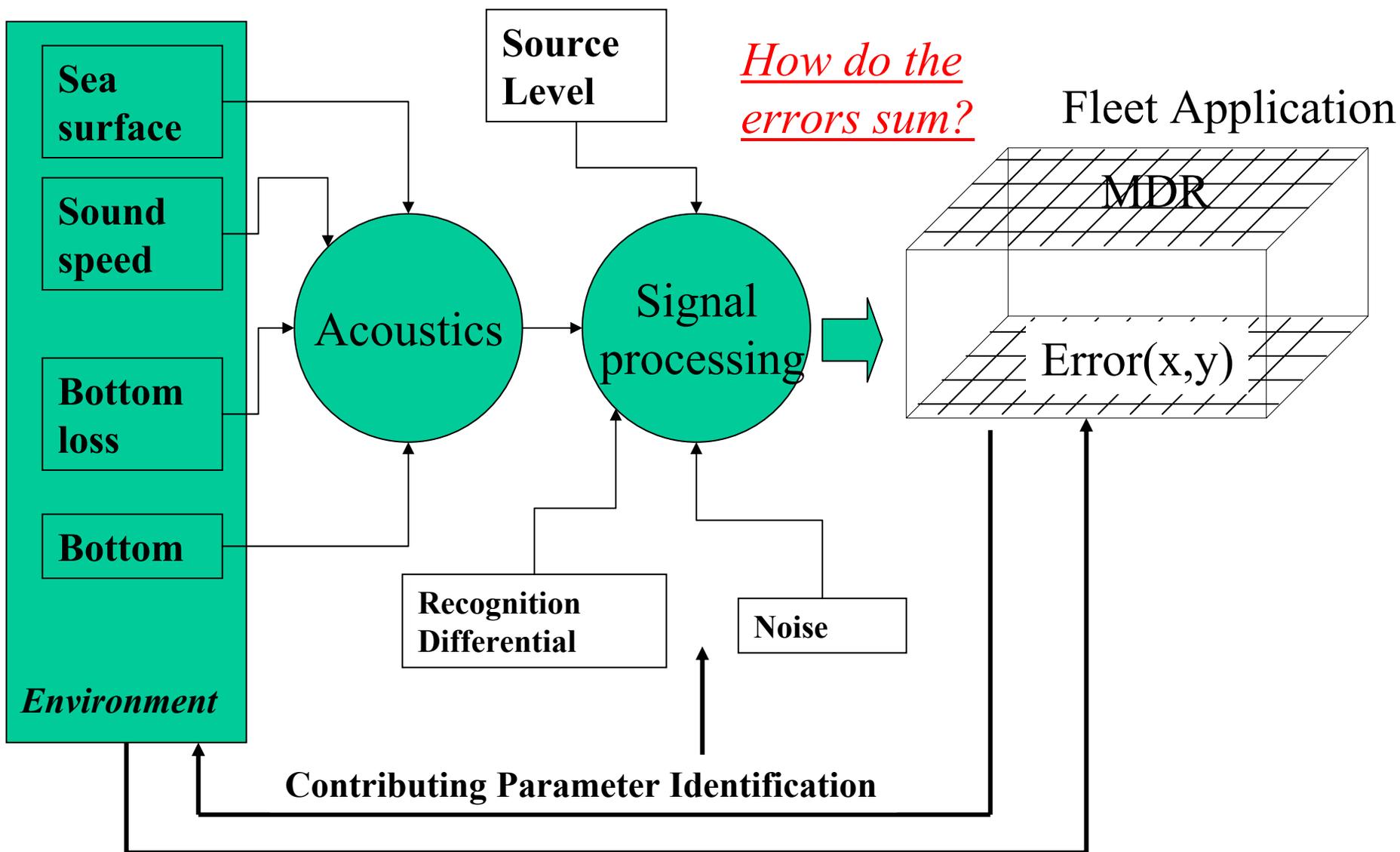
3) Connectivities among disciplines

- Methodologies for transfer of uncertainties among disciplines (“bubbles”)



4) Feedback

- Subjective, objective, expert systems for adaptive sampling throughout.
- Generalized adaptive methodology
- System improvements



Mission Planning Example for grid space selection