**Background:**

* A certain frustration with “burden of proof” arguments, e.g. warming climate.
* Looking to have a wader view of Science’s Roles and Responsibilities. e.g. “This is Fisheries Management’s problem …”
* Wary of “turn the crank” assessments.
* Who defines objectives? Do we need to clarify objectives? Define new objectives? Ensuring the health of the population is a wide goal.

**Role of Science:**

* Risk identification
* Risk analysis
* Risk evaluation?

**Fishery management objectives:**

* Should they be defined in Science documents / assessments?
* When / how should their effectiveness come into play?
* What are the management objectives for sGSL snow crab?
  + Total commercial biomass
  + Total residual biomass
  + Currently ignoring certain aspects such as discarding, egg production, local effects, etc …

**Presenting / communicating / addressing uncertainty:**

* “Well if you’re not sure, we shouldn’t do anything about it …” (i.e. legal thinking)
* Quantitative-predictive models required for providing Science advice?
* What are DFO’s legal obligations with respect to risk management?

**Science relationship with Fisheries Habitat Management:**

* What to do when faced with non-technical people who don’t necessarily have a broad view of what they’re doing or why they’re doing it? i.e. lack of foresight / unwilling to face incoming problems.
* **“It’s not Science’s problem …” thinking**. I think that my job has meaning when the goals are well defined, they make sense, and the product we are generating is used, or can become useful when the time comes to make a contribution to the decision making.
* Should we be helping shape / clarify / show the scope / limitations of different objectives?
* Soft-shelled crab protocol : Not working (effectiveness of management measures, who evaluates that? When?)
* FHM will never be leading implementation of risk-management.

**Being precautionary:**

* What does it mean?
  + Ex. Maybe if we scale down fishing, snow crab will be able to better resist a warming climate … but probably not? How to frame long-shot (low probability) strategies?

**Ecosystem considerations:**

* Should we be considering snow crab impacts on other species?