

**Program for Aquaculture Regulatory Research (PARR)
Directed Call for Proposals (2010-2011)**

Table 1. PARR research priorities, science objectives and funding allocation for the 2010-2011 funding cycle.

No.	Region	Priority Issue	Science Objective(s)	Researcher(s)	Max. funding
1	Pacific	Wild-farmed interactions and sea lice management. Characterization of the susceptibility of wild Pacific salmon populations to sea lice infection.	1A. To conduct laboratory studies to describe the susceptibility of juvenile pacific salmon to sea lice infection.	Simon Jones Stewart Johnson	\$50,000
			1B(i). To monitor wild salmon populations to identify <u>when</u> and <u>where</u> vulnerable populations are located in relation to fish farms. 1B(ii). To model sea lice dispersal along with the migration routes of Pacific salmon.	Dick Beamish Brent Hargreaves Mark Saunders	\$250,000
2	Central and Arctic	Environmental regulation for farm siting; environmental impacts of deposition.	To format and analyze existing data towards the development of a freshwater deposition model.	Doug Geiling Cheryl Podemski	\$85,000
3A	Quebec	Environmental carrying capacity for shellfish culture.	To identify possible ecosystem indicators for the assessment of carrying capacity limits in shellfish culture areas. Benthic and/or pelagic factors should be considered.	Chris McKindsey	\$40,000
3B	Gulf			Luc Comeau	\$30,000
4	Maritimes	Establishment of an IPM program for sea lice. Access to, and evaluation and monitoring of therapeutants.	4A. To evaluation of the toxicity and efficacy of sea lice treatments on target and non-target organisms.	Les Burrridge	\$130,000
			4B(i). To conduct a dye dispersion study to characterize how therapeutants will disperse from cage sites. 4B(ii). To model the transport and dispersal of therapeutants released to the marine environment.	Fred Page	\$120,000

5	Newfoundland	The establishment of Bay Management Areas for the South coast of Newfoundland for site and fish health management.	To characterize and model oceanographic conditions of the South Coast of NL for establishment of Bay Management Areas based on science.	Gehan Mabrouk / Fred Page	\$100,000
6	Pacific (and Newfoundland)	Characterization of the environmental impacts to hard bottom substrate.	6A. To identify the effects of farm waste deposition on hard bottom substrates. 6B. To identify methods for evaluating, monitoring and quantifying impacts and effects of hard bottom substrates.	Terri Sutherland	\$45,000
7	Maritimes	Evaluation of environmental impacts for guidance in determining when HADD Authorizations will be required for farming operations.	To evaluate DEPOMOD or other depositional models in SWNS to predict the zones and intensities of impacts around farm sites.	Fred Page	\$30,000
	Total				\$880,000