"The effects of climate change on oceans"

As with all RFMOs, the North Pacific Anadromou interactions between climate change and oceans Pacific salmon fisheries are of primary important about 2 million jobs in fishing and related industrie

Annual production of Asian and North American undergone significant variability linked to climat management needs improved fishery forecasts and climate variables and salmon stock conditions.

The 2011–2015 NPAFC Science Plan was adopted annual variations in Pacific salmon production overarching research theme "*Forecast of Pacific under Changing Climate*" at an international symp

As revealed from NPAFC-related studies, climate Pacific in different ways. Change in extent and du a key role in structuring ecosystems that alters geo

Researchers observe northward shifts in fish distribution is a high abundance of juvenile pink and chum. Continued warming may enable new salmon popt the Arctic. At the same time, loss of cool water z the southern end of their present range.

The warming ocean can adversely affect Pacific sa decrease availability of lipid-rich zooplankton an Change in the dominant species composition and distribution could affect location and timing of salmon fisheries. With variable environments, modifications to the timing and the size of juvenile fish at release will likely be required to optimize hatchery production. Models incorporating fish mortality and various environmental factors should improve the ability to forecast returns of salmon stocks. New scientific information will also contribute to effective protection of Pacific salmon by NPAFC member nations from illegal, unreported, and unregulated (IUU) fishing.