

# **IUU Fisheries & Potential Conservation Responses**

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# Scope & Scale of IUU Salmon Catch

- Everywhere in the Russian Far East
- Highest volumes -- Kamchatka & Sakhalin
- IUU catch in other RFE rivers possibly more ecologically risky
- 100-200,000 MT/year, or 40-80% of legal commercial catch (conservative estimate; Dronova & Spiridonov 2009)

# Types of Salmon IUU Fisheries

1. Over-catch & misreporting in shore-based commercial fishery
2. Cash subsistence
3. Household subsistence
4. Highly organized criminal roe-stripping operations
5. Over-catch, high-grading & misreporting at sea (sockeye and coho main targets)

#### 4. Criminal IUU fishery:

From transportation network to major tributaries. Buyer from commercial fishery and cash subsistence fishers. Also employs own people. Owns fishing gear, transport, security & and communications tools. "Owns" enforcement personnel, agency & political figures. Motives: high profit, low risk

Processors & transport fleet

Commercial fishery

#### 1. Commercial ops:

Faster \$\$ from IUU markets; higher value/unit labor from roe; mixed species runs; TACs too low and inflexible. Motives: stay in business, profit

2. Cash subsistence: access to commercial or criminal buyers or own vehicle. Motives: food & \$\$ need

3. Household: transport & \$\$ limited. Motives: food, indigenous culture

# Enforcement Chain Analysis

$$\text{Cost of poaching} = P_{\text{detection}} \times P_{\text{arrest|detection}} \times P_{\text{prosecution|arrest}} \times P_{\text{conviction|prosecution}}$$

For Kamchatka, cost of poaching is no more than \$0.61/kilo versus Petropavlovsk market value of \$50/kilo (input data from UNDP GEF 2008; assumed 100% probability of arrest given detection, given absence of data)

Weak links – detection (4%); prosecution rate (3%), due to onerous evidentiary requirements.

Under current law, companies are not held liable – only individuals.