

Principles of utilisation

(FISH510.9: Principles of utilisation: The precautionary approach)

Gunnar Stefansson

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Rio Declaration On Environment and Development

Principle 15

... the precautionary approach shall be widely applied

Weak, but: ... PA shall be applied

CODE OF CONDUCT FOR RESPONSIBLE FISHERIES

ARTICLE 6 - GENERAL PRINCIPLES

6.3 States should ... ensure that fishing effort is commensurate with ... sustainable utilization

- ... Sustainable !

6.5 ... apply a precautionary approach widely absence of ... scientific information ... not ... a reason for postponing ... measures

- ... PA shall be applied

6.9 ... the need for conservation ... taken into account in...the coastal zone

- ... account for conservation - coastally

ARTICLE 7 - FISHERIES MANAGEMENT

7.1.1 ... adopt measures for ... sustainable use of ... resources. ... measures, ... local, national, subregional or regional levels, ... ensure ... sustainability ... short term considerations should not compromise these objectives.

...which promote the objective of their optimum utilization...

- ... sustainable and optimum utilization-not short term

7.2 Management objectives

7.2.1 ...long-term sustainable use of fisheries resources is the overriding objective of conservation and management, ..., adopt ... measures, ... to maintain or restore stocks at levels capable of producing maximum sustainable yield...

- ... sustainable=1. objective
- ... $B > BMSY$

7.5 Precautionary approach

7.5.3 ... should... determine: a. ... target reference points, ... b. ... limit

STRADDLING AND HIGHLY MIGRATORY FISH STOCKS

Article 5 - General Principles coastal States and States fishing on the high seas shall

- a) ... ensure long-term sustainability ... promote the objective of their optimum utilization;
- b) ... maintain or restore stocks at levels capable of producing MSY...
- c) ... precautionary approach ...

coastal States and States fishing on the high seas shall

h) ... fishing effort do not exceed ...the sustainable use of fishery resources;

- ... $B > B_{MSY}$ and $F < F_{MSY}$
- ... $F < F_{crash}$

Article 6 - Application of the precautionary approach

2. States shall be more cautious when information is uncertain... The absence of ...information...not ... a reason for postponing or failing to take ... measures.

3. In implementing the precautionary approach, States shall: b) ... determine,... reference points ...

- ... NB: More cautious !
- ... NB: SHALL define ref. pts and action ...

4. ... ensure that, when reference points are approached, they will not be exceeded. In the event that they are exceeded, States shall, without delay, take the action determined under paragraph 3 (b) to restore the stocks.

- ... action WITHOUT DELAY

STRADDLING AND HIGHLY MIGRATORY FISH STOCKS

ANNEX II

Limit reference points set boundaries ... constrain harvesting within safe biological limits ... stocks can produce maximum sustainable yield. Target reference points are intended to meet management objectives.

- ... $Blim > BMSY$ and $Flim < FMSY$

... ensure that the risk of exceeding...limit reference points is very low. If a stock falls below a limit reference points or is at risk of falling below such a reference points, ... action ... facilitate stock recovery.

Fishery management strategies shall ensure that target reference points are not exceeded on average.

- ... $P[B < Blim]$ and $P[F > Flim]$ very low
- ... $P[B < Btarget]$ and $P[F > Ftarget] < 0.5$

... information ... poor or absent, provisional reference points shall be set.

- ... uncertain -> provisional pts

The fishing mortality rate which generates maximum sustainable yield should be regarded as a minimum standard for limit reference points. ... strategies shall ensure that fishing mortality does not exceed that which corresponds to maximum sustainable yield ... overfished ... biomass which would produce maximum sustainable yield can serve as a rebuilding target.

- No other criteria: $Btarget = BMSY$ and $Flim = FMSY$