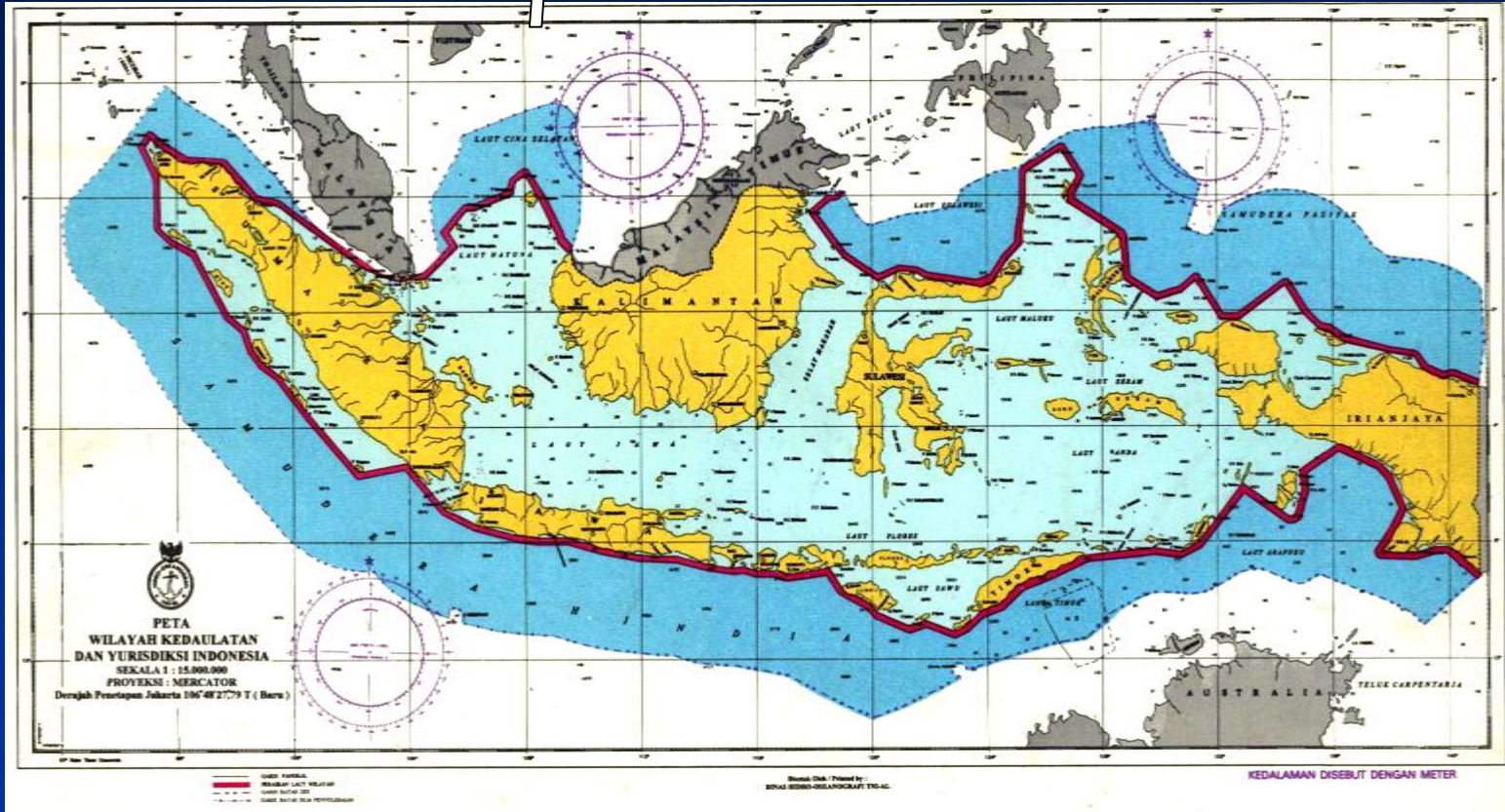


# *Evaluation of Non-detriment Finding for Trade in Stony Coral from Indonesia*



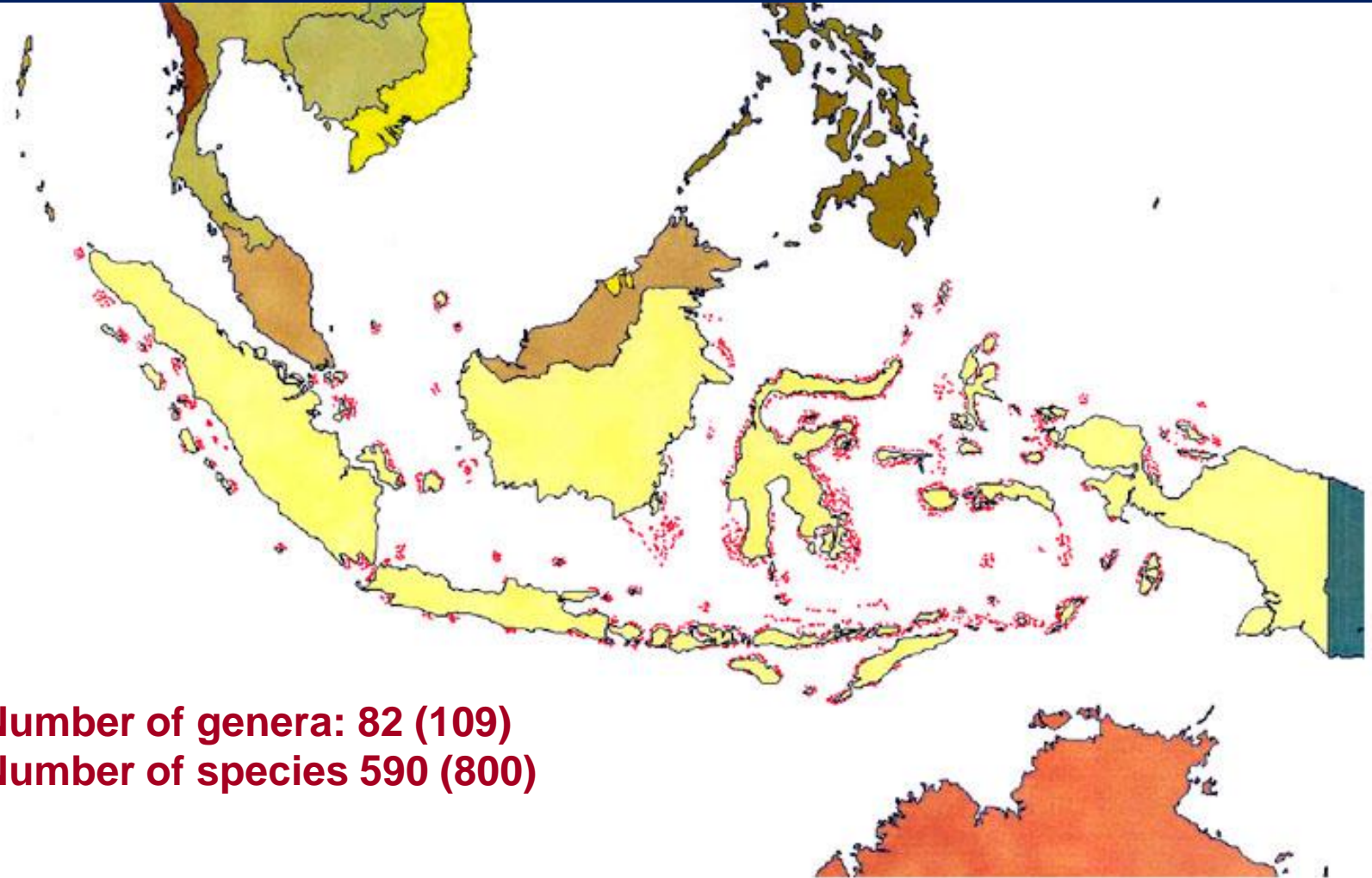
# Map of Indonesia



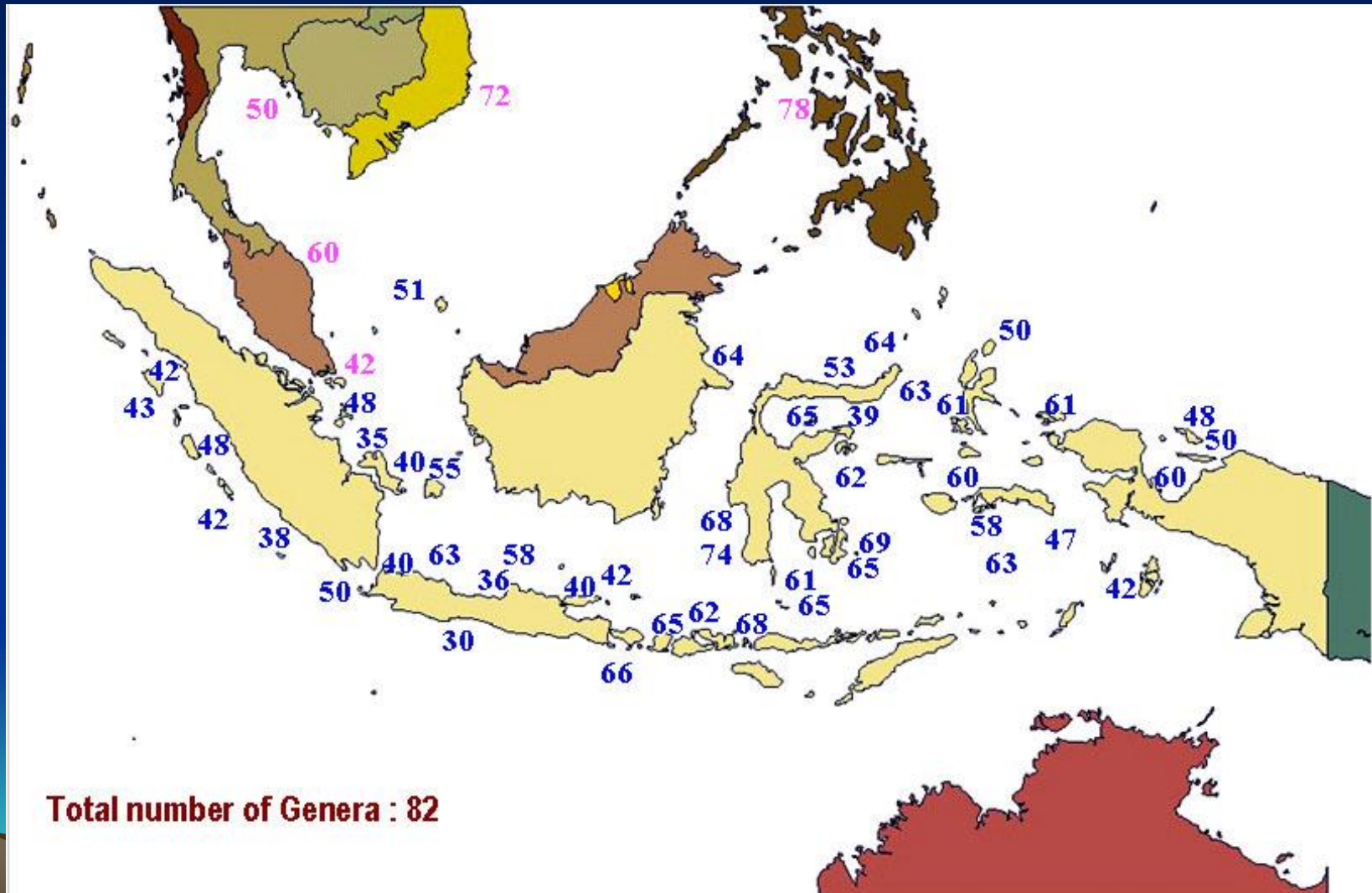
1. Length east-west : 5,100 km
2. Wide north-south : 1,800 km
3. Area : 10,8 million km<sup>2</sup>
4. Number of island : 18,100.
5. Coral reef area : 87,500 km<sup>2</sup> =14% of the world



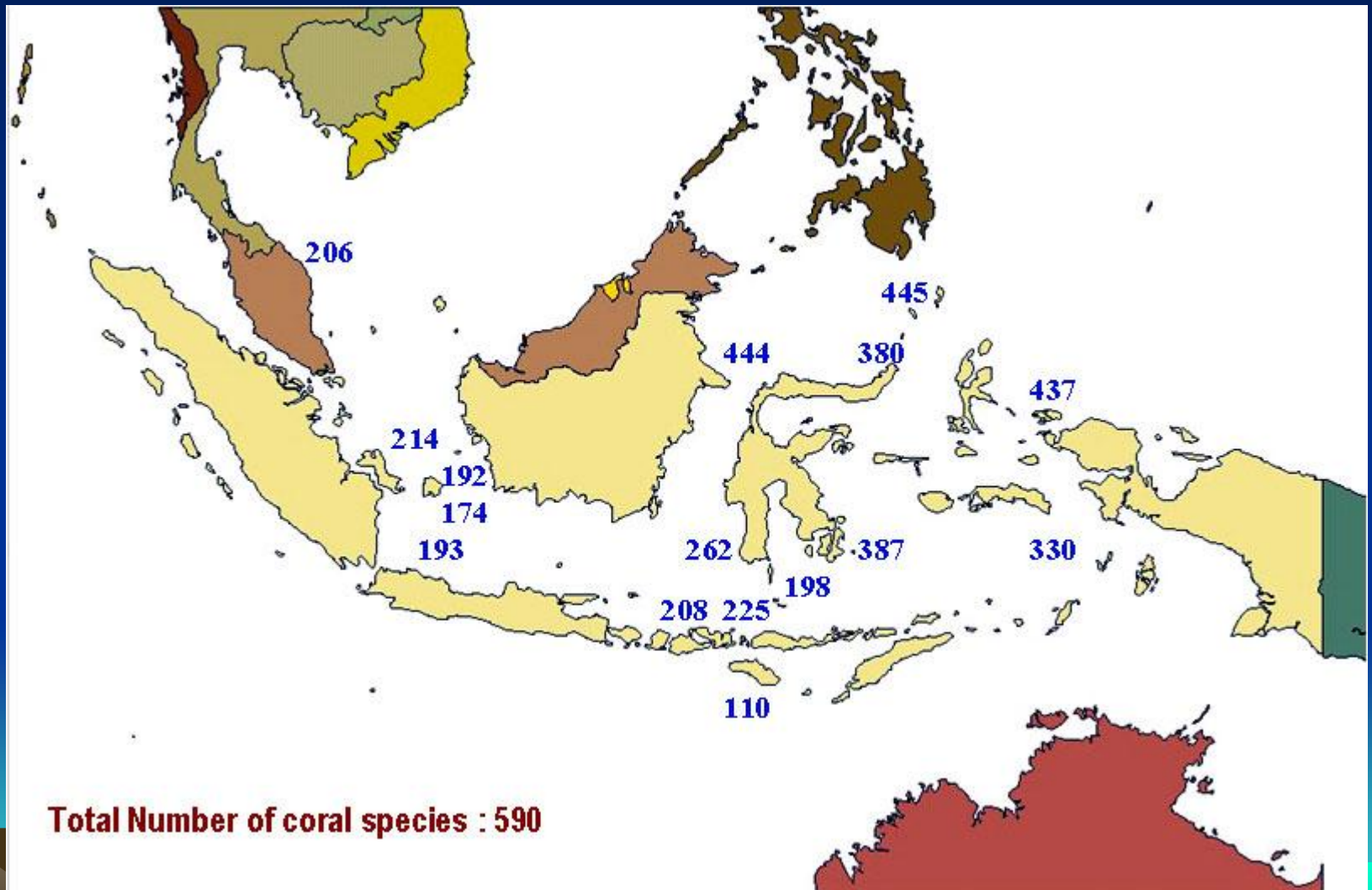
# ***Coral Reef Distribution in Indonesia***



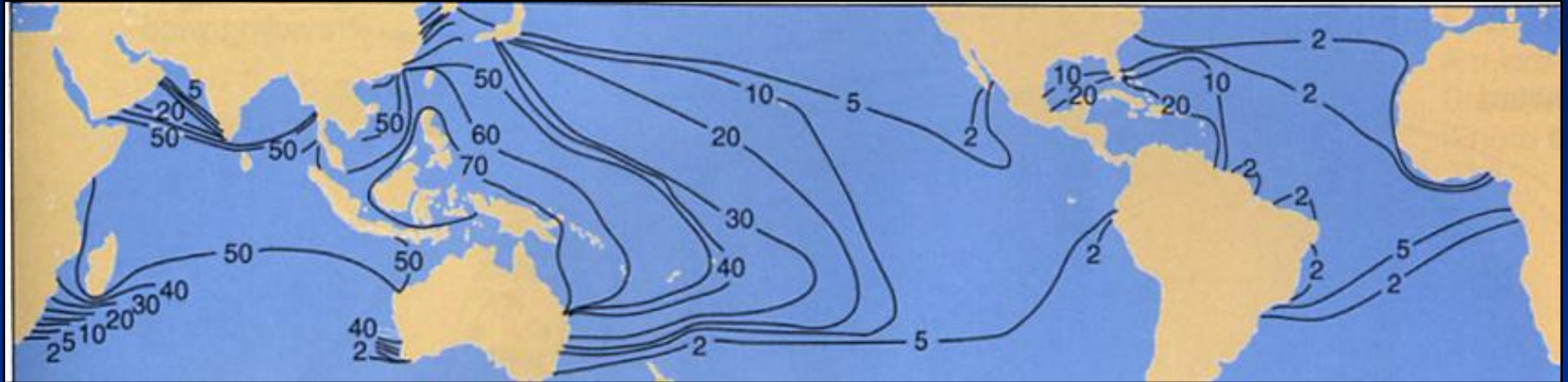
# ***Distribution of Coral Genera in Indonesia***



# ***Distribution of Coral species in Indonesia***







The number of genera of reef corals occurring in various tropical regions  
(After "Distribution of Reef Building Corals" J.E.N. Veron. *Oceanus*, Vol 29. No. 2, p.27, 1986.  
Copyright ©1986 Woods Hole Oceanographic Institution)

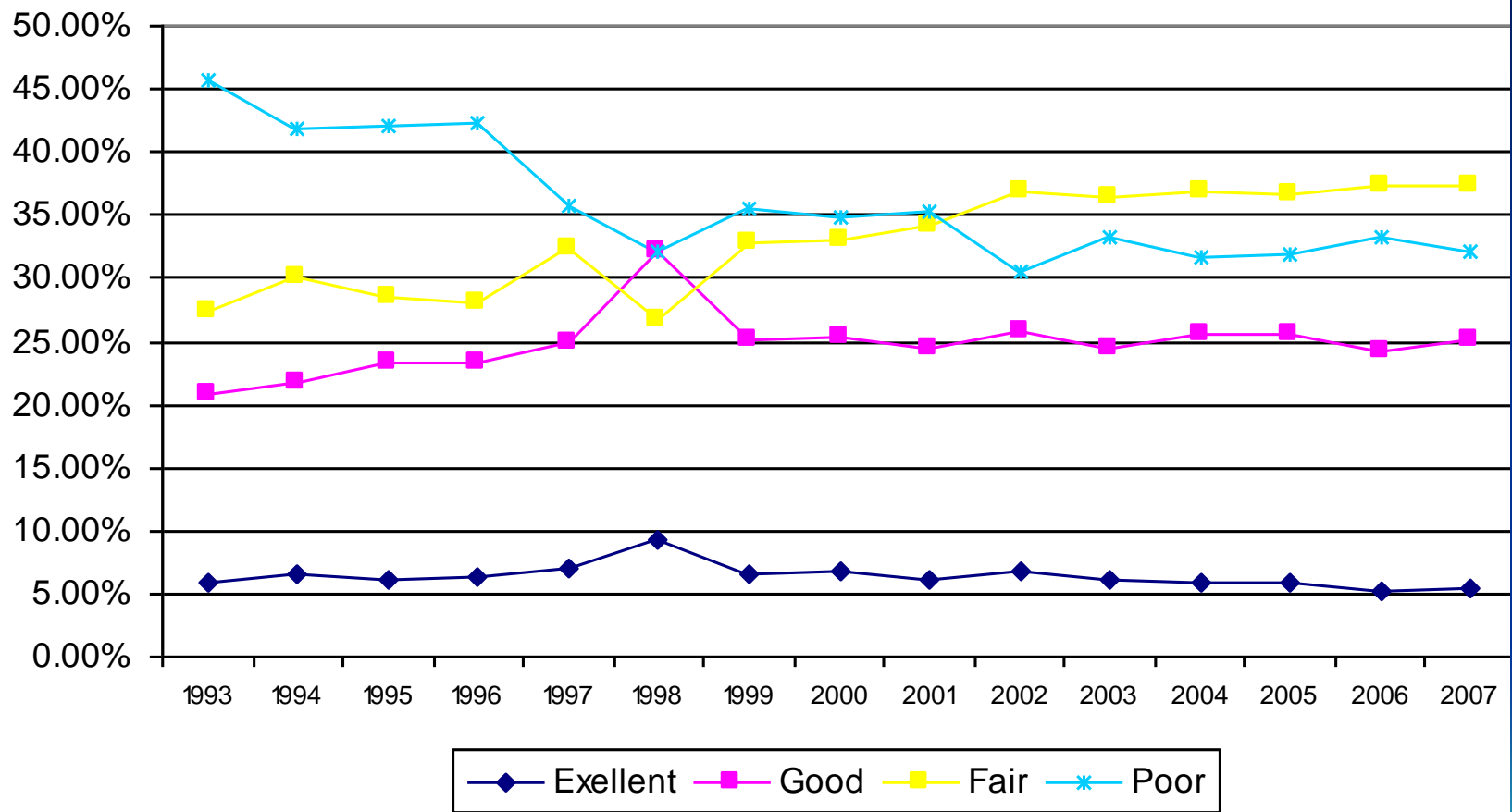
# *Status of Coral reefs condition in Indonesia*

Location		No. of Location	Excellent	Good	Fair	Poor
West	35	362	5,52	27,07	33,98	33,43
Central	27	274	5,11	30,29	44,89	19,71
East	15	272	5,88	17,28	34,19	42,65
Indonesia	77	908	5,51	25,11	37,33	32,05

*Data were taken from 77 locations and 908 stations all over Indonesian waters*



# *Graphic of trend of coral reefs condition in Indonesia from 1993-2007*





# *Coral biology*

## **Reproduction :**

1. Sexual : male, female, hermaphrodite.
2. Asexual : propagation, bail out, budding, break out.
3. Spawning or brooding (1 – all year around).

## **Growth :**

2 – 25 cm / year. (depend on species)



# *Main threat of coral reefs*

1. Boming to catch fish.
2. Cyanide fishing for live fish.
3. Pollutant from land base activities.
4. Bleaching event (natural disasster)



# *Management plan*

- COREMAP : Res & monitoring, Institutional strengthening, Community based management, Law enforcement and Public awareness.
- Coral taken at levels below the regeneration rate for each species.
- Harvest taken in several area.
- Export coral for live coral only.
- Export of live coral from nature gradually minimized substitute by transplantation corals.
- Quota setting.

# Quota setting

$$TV = SoC + RF + RD + HC$$

*SoC* = Size of Colony  
*RF* = Relative Frequency  
*RD* = Relative Dominance  
*HC* = Hard coral cover

## Criterion for Decision Making

Interval TV	Criterion	Action taken
17-20	Very common	Harvest allowed
14-16	Common	Harvest allowed with caution
11-13	Uncommon	Harvest limited
8-10	Rare	Harvest strictly limited
5-7	Very rare	Harvest prohibited

**Note:** *TV=Total Value*



# *Non detrimental finding measure*

- The amount exported for each coral species is relatively small compared to the existing potency.
- The size of each species did not show any significant decrease.
- Condition of coral reefs are monitored yearly.



- Coral harvested outside conservation area, tourism area, and protected area.
- Size of the harvested coral are between 5 -20 cm.
- Coral harvest can be done after its abundance evaluated by SA, MA and ICRWG.
- Collecting of coral must be done with care and by trained fishermen.



- The amount coral collected based on the quota set up by MA.
- Field monitoring is to be done once a year by SA, MA and ICRWG.
- Collection and division of qouta is based on province and deversified for each province in order to prevent concentrated harvesting in one location.



- Permit is only given for living coral. This is to push fishermen and exporter to be more careful. This is also intended to prevent smuggling of coral.
- All exported and fishermen are required to execute coral transplantation.
- The portion of coral quota from nature will be decreased and those from transplantation will be increased.



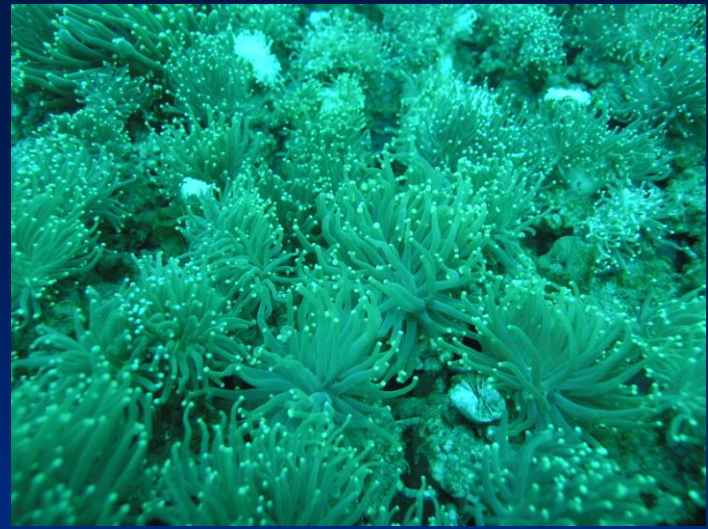


# ***Recommendation***

1. To select species of corals which significantly to include in the Appendix II of CITES
2. The Animal Committee is needed to give the status of coral transplantation
3. To socialize coral identification for the custom
4. Determination of a sustainable quota



*Euphyllia divisa*



*Euphyllia glabrescens*



*Euphyllia paraancora*



*Goniastrea favulus*





*Heliofungia actiniformis*



*Hydnopora rigida*



*Montipora danae*



*Montipora delicatula*





*Montipora foliosa*



*Seriatopora hystrix*



*Trachyphyllia geoffroyi*



*Tubipora musica*





*Thank You*

