

COUNTRY REPORT CASE STUDY ON NDF OF AGAR WOOD AND PLANTATION IN INDONESIA

Presented by



Research Center for Biology,
Indonesian Institute of
Sciences
(Scientific Authority of
Indonesia)



Directorate General of
Forest Protection and Nature
Conservation
Ministry of Forestry
(Management Authority of
Indonesia)

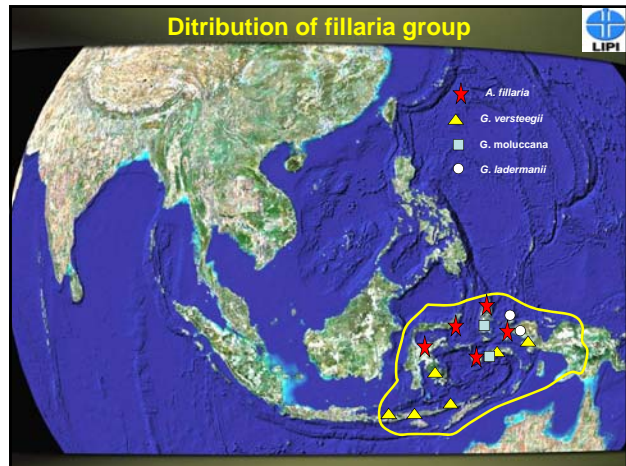
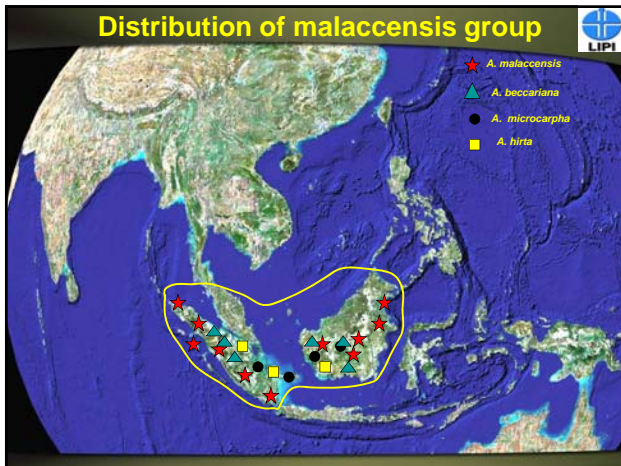


Forestry Research and
Development Agency
Ministry of Forestry

Agarwood producing species in Indonesia


Species	Ecology (m asl) *	Distribution
<i>A. beccariana</i> van Tiegh.	Up to 825: primary forests	Sumatra, Borneo/Kalimantan, common
<i>A. cumingiana</i> (Decne) Ridl.	Medium altitude: in primary forest	South Borneo, Moluccas (Morotai & Halmahera),
<i>A. fillaria</i> (Oken) Merr.	Up to 130: open swamp forest	Celebes, Moluccas: Morotai, Seram & Ambon, West New Guinea: Sorong & Babo)
<i>A. hirta</i> Ridl.	Up to 300: in hill slope from lowland forest	Riau, South Sumatra, Bangka, Belitung & other neighboring small islands (Bintan, Batam).
<i>A. malaccensis</i> Lamk.	Up to 270: common in primary forest	Sumatra, Borneo/Kalimantan & its surrounding small islands
<i>A. microcarpa</i> Baill.	Up to 200 at primary forest	Sumatra, Bangka-Belitung Borneo/Kalimantan & other neighboring small islands)
<i>G. decipiens</i> nov. sp.	At 100 m, primary forest	Central Celebes (Warotoli, Palarabi)
<i>G. ladernanii</i> Domke	0 – 200 m: virgin forest – slope area, dense	New Guinea (Mt. Prince Ladernan)
<i>G. moluccana</i> (Miq.) Baill.	± 100	Moluccas (Halamahera & Buru)
<i>G. podocarpus</i> (Gilg.) Domke	Up to 750, in primary forest	West Papua (Sorong, Monep)
<i>G. salicifolia</i> Ridl.	At 300 m, in fringing rain forest	Western New Guinea (Utakwa & Nabire)
<i>G. versteegii</i> (Gilg.) Domke	Up to 900	N.E. Celebes, Lesser Sunda Islands (Lombok, Sumbawa, Flores, Sumba) & West New Guinea)

Source of data: Ding Hou, 1972, Wiradinata, 1995, Soerhartono & Newton, 2001, Oyen & Nguyen Xuan Dung 1999.




SOURCES OF AGAR WOOD POTENCY DATA FOR QUOTA SETTING

- Field sampling by specialist group of agarwood in main producing areas
- Additional information of agarwood from exporters, forestry district offices, association, local traders, farmers
- Report data on target and realization of annual export



Mother tree of *A. malaccensis*

Cultivated agarwood tree species




1. *Aquilaria malaccensis*
2. *A. microcarpa*
3. *A. beccariana*
4. *A. hirta*
5. *A. cumingiana*
6. *A. fillaria*
7. *A. crassna*
8. *Gyrinops versteegii*



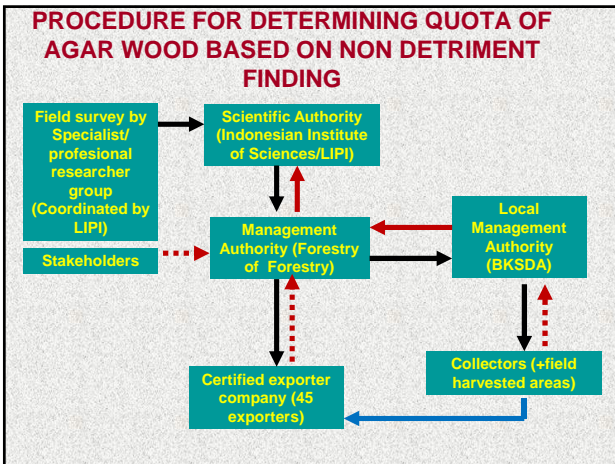
Source of seedlings

- ❑ Seed from cultivated (75%)
 - germination rate (>90%)
- ❑ Wild seedling (20%)
 - survival rate (50%)
- ❑ Naturally seedling (5%)
 - community garden
 - depend on mother tree

Plantation



- Private (99%)
 - mix plantation
 - individual or group
- Government (1%)
 - research purposes
 - Industrial plantation
 (for communities forest)



Proposed Registration of Plantation

- Local community scales → Local government → BKSDA → DG of PHKA
- Company scales → BKSDA → DG of PHKA



THANK YOU

South Kalimantan

West Kalimantan

Banten Province