

Non-detriment finding for

***Vanda coerulea* Griffth.ex Lindl.**

Duangduen Sripotar

Plant varieties Protection Division

Department of Agriculture

CITES Management Authority of Thailand

NDF Process

- **planning the project**
- **consult with SA**
- **interview stakeholder**
- **field survey**
- **evaluate and analyze the information**
- **making NDF**

Scientific Authority

2 group were appointed by MA

- Person (specialist from university)**
- Representative from institute**

Role of SA

- Advise about scientific of CITES listed**
- Advise about nursery registration**



Reference review In consultation with SA

- **taxonomy**
- **biology**
- **distribution**
- **status**
- **seed culture**
- **tissue culture**
- **breeding research**

Taxonomy

Order *Orchidales* - Dumortier, 1829

Family *Orchidaceae* - Adans , 1763, Nom Cons - Orchid Family

Subfamily *Epidendroideae*

Tribe *Vandaeae*

Subtribe *Sarcantheae*

Genus *Vanda* - Rolfe, 1896

Specific epithet *coerulea* - Griff ex Lindl

Botanical name - *Vanda coerulea* Griff. ex Lindl.

Vanda coerulea Griffh.ex Lindl.

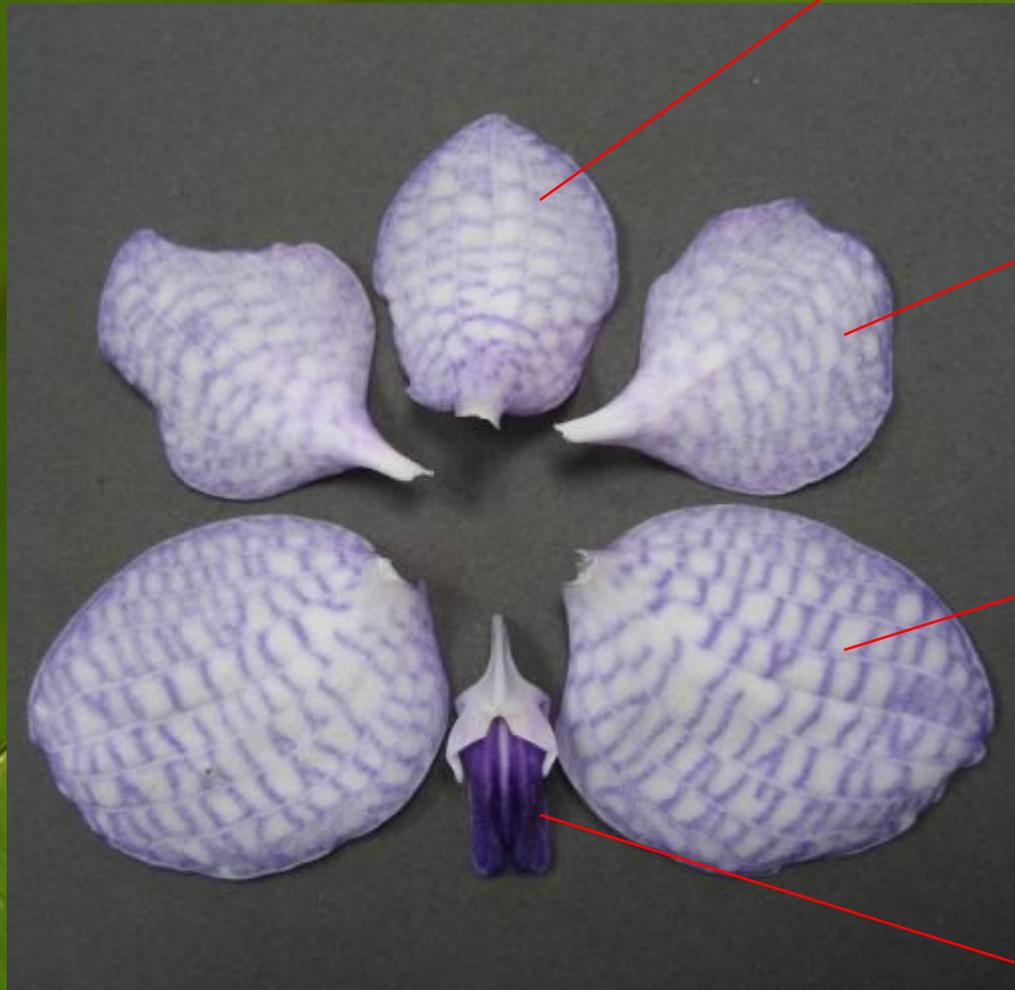
- Scientific name: *Vanda coerulea* Griffh. Ex Lindl.
- Common name: Blue Vanda, Far Mai (Thai)
- Distribution : India; Assam
: China; Yunnan; Guizhou
: Myanmar; Shan state
: Thailand; Chiangmai, Mae Hongson,
Lampang, Tak and Karnchanaburi.

Habitat



Open forest at approximately 800 - 1,700 m above sea level.
Epiphyte on deciduous stunted trees e.g. *Terminalia* spp.,
Sterospermum spp. etc. at height of around 10 -20 m.

Biology



dorsal sepal

lateral petal

lateral sepal

lip

flower

Staminal column

Anther cap, operculum

pollinia

stigma

staminal column

ovary & pedicel

bracteole

pod



Information from SA

- **biology, habitat, distribution,**
- **method to collect data from field survey**
- **orchid specialist**
- **orchid network**

Native orchid network

- In 2004 the researcher about orchid had a meeting and set up network and directory
- October, 2008 2nd meeting to review activities and initiate the project of survey of orchid in PA in western part of Thailand



...เครือข่ายกล้วยไม้ไทย ...Native

Information from informal interview

Orchid network

- taxonomy, tissue culture, molecular and breeding
- the information from lab

Orchid specialist,

- biology, habitat and distribution
- the information from field survey

Nursery registration in Thailand

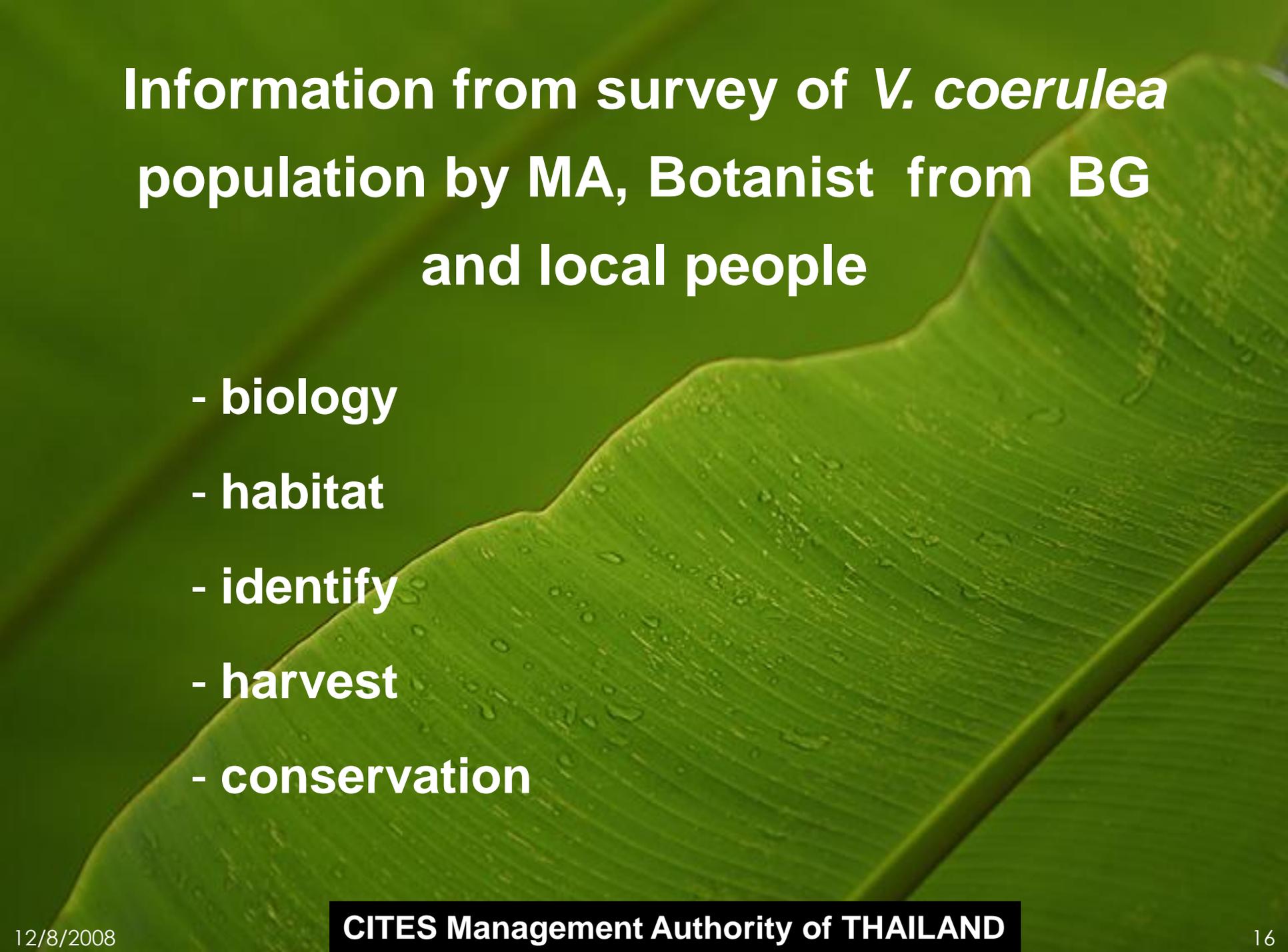
- According to Plant Act (second revise) B.E. 2535 (1992), the people who intend to propagate plant under CITES listed have to register with DoA
- there are 193 nurseries located in 42 provinces around the country
- about 80% is orchid nursery, the rest are cactus, pitcher plant, cycad, palm, agar wood and succulent
- about 40% registered *V. coerulea*, only 4 nurseries have more than 200 plants to sell

Nursery of *V. coerulea* in Thailand



Field survey by MA

- population in Chiangmai province
- domestic trade



Information from survey of *V. coerulea* population by MA, Botanist from BG and local people

- biology
- habitat
- identify
- harvest
- conservation







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Information from informal interview

The local people

- Population
- Status
- Harvest

Field survey of domestic trade



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Export of *Vanda coerulea*



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The export of *Vanda coerulea* from Thailand

Year	Quantity	Shipment
2000	257 plants	20
2001	213 plants	11
2002	336 plants	14
2003	237 plants	18
2004	708 plants	28
2005	633 plants	32
2006	424 plants	34
2007	1003 plants	43

Legislation

Plant Act B.E. 2535 (1992) to implement with CITES

- Define plant under CITES listed is conserved plant**
- Control import and export of conserved plant**
- Registered conserver plant for commercial purpose**

Legislation

Forest Act B.E.2485 (1942)

-Determine that all orchid is a Restricted Minor Forest Product

the specimens of orchids are not allowed for trade, but the consumption has a limit for personal use of only 20 plants.

Information from nursery men informal interview

- artificially propagate program i.e. blue vanda can produce the flower in 2 years after de flask**
- domestic trade i.e. try to make the price of A to equal or lower than W**
- international trade i.e. still demand for orchid from natural**

Informal interview with trader and nursery men



Training and Education



Differentiate of A&W



flower comparison



Vanda coerulea



Vanda hybrids

Conservation

Reintroduction of plant

- seed culture
- big plants sizes
- ecotourism

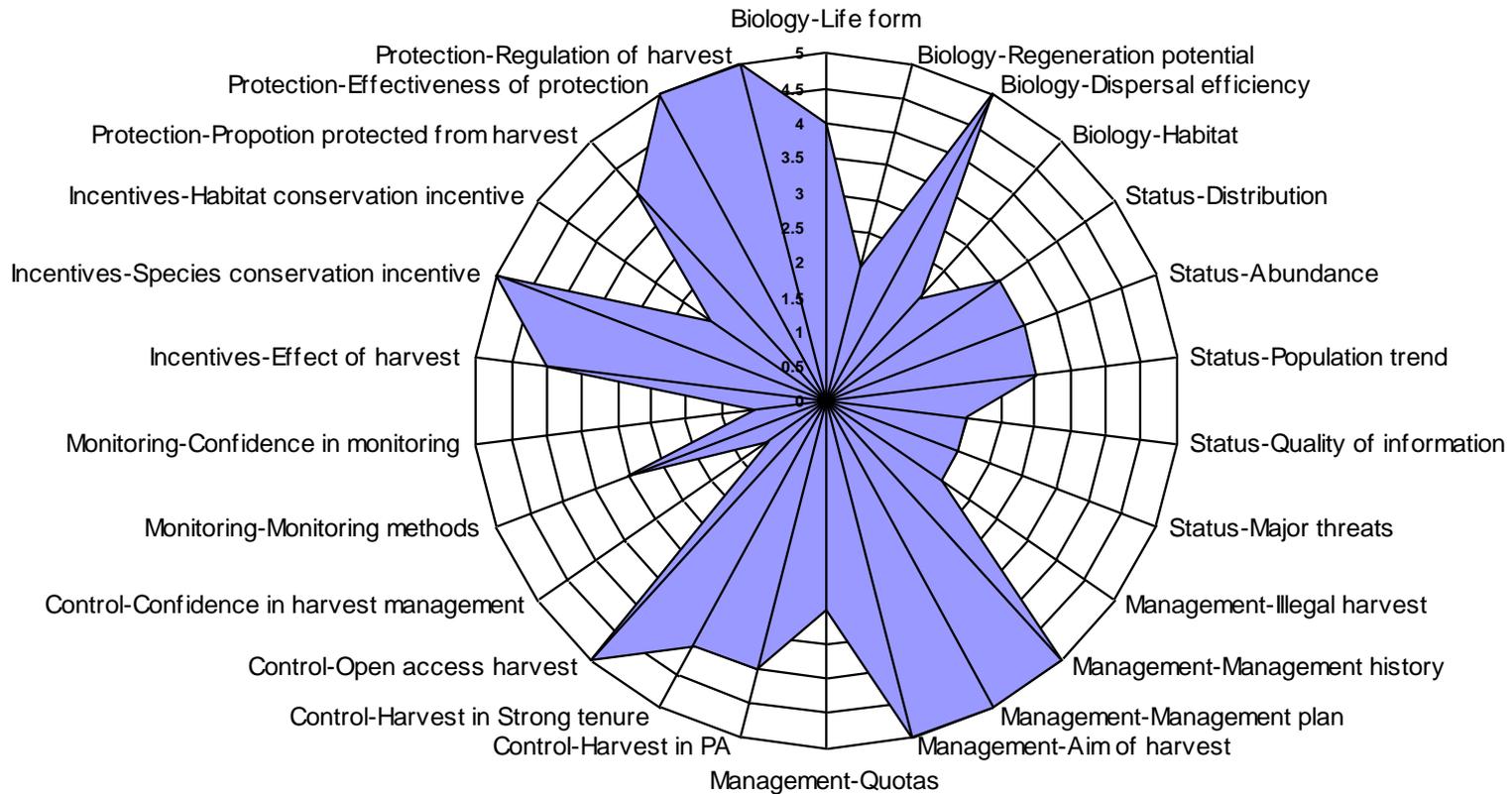
Reintroduction





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Radar Plot of *Vanda coerulea*



Problem and recommendation

- Sporadic review population and status.
- Strengthen the role of SA
- Course of training to trainer for making NDF for parties



Thank you