LIII. Pinaceæ.

214) **Juniperus rigida** S. et Z. (テス) NAKAI II. 383.

Kangkai 6 / 10 / 1911. No. 309.

215) **Abies holophylla** MAXIM. NAKAI II. 381.

Kangkai 8 / 6 / 1910. No. 413.

(FINIS).

On Some Celebes Plants.

By

Takiya Kawakami.

The flora of Celebes Island is one of the great interest, but was limited. Dr. S. H. KOORDERS made exploration in the northern part of the Island, and collected many interesting plants. Dr. KOORDERS' work was published on "Erste Overicht Flora Celebes"—Mededeelingen uit s'Lands Plantentuin No. XIX. Buitenzorg (1896).

I visited the Island in October 1911, and my collection of plant was made in the village of Maros only; the place was situated at thirty miles far from Makassar. Though the collection was a small quantities but it might be quite interesting. In November while I have been in the Herbarium of Buitenzorg, I took the study of comparison of the plants and determined the names of some plants under the kind advice of Dr. Th. VALETON and Dr. S. H. KOORDERS. A few fern was determined by Mr. VAN ALDEWERELT VAN ROSEBURGH and he gave some description for the new Species. A list of my collection is following.

Thespesia populnea SALAND.

Crescentia cujete L.

Anacardium occidentale L.

Ophiorhiza sp. (n. sp.)

Pluchea indica LESS.

Luminitzera racemosa WILLD.

Rhizophora mueronata LAM.*Hyptis capitata* JACQ.*Hygrophila* Sp.*Hemigraphis* Sp.*Piper miniatum* BL.*Phyllanthus Emblica* L.*Acalypha caturus* BL.*Antidesma montanum* BL.*Ficus* Sp.*Boehmeria* Sp.*Elatostema Sequifolium* HASSK.*E. paludosum* MIQ.*E.* Sp.*Loranthus* Sp.*Viscum articulatum* BURM.*Homalomena pygmaea* ENGL.*Pteris* Sp.*Aspidium Kawakamii* v. A. v.

R. n. Sp.

A new fern was described by Mr. VAN ALDEWERELT van ROSENBURGH as follows.

Aspidium (Sagenia) **Kawakamii**, v. A. v. R., msc. Stipes ca 20 cm long, pale-brown, densely and finally but deciduously short-hairy, as is the rachis, sulcate down the face, somewhat scaly towards the base, the scales linear to subulate, entire, brown. Fronds ca 20 cm each way, 3-foliate. Terminal (central) pinna moderately longstalked, deeply 3-fid, the lowest lobes oblique, much elongated, lanceolate-falcate, ca 10 cm long, subcaudate-acuminate, irregularly repand, the central lobe broader than the lateral ones, lobed with short, rounded lobes; lateral pinnæ sessile or nearly so, forked on the lower side at the base, the base obliquely rotundate-subcordate, the segments similar to the lowest lobes of the terminal pinna, the posterior lobe the shortest. Texture firm; surfaces naked; costæ and costulæ finely hairy above, the hairs more or less dense; areolæ with numerous included free vein-lets. Sori numerous, distant, placed in 2 rather irregular rows between the main veins, terminal on short free veinlets, somewhat prominent on the upper surface, each encircled by a transparent patch of the parenchyma; indusium reniform, coriaceous, persistent.

Celebes (Maros, leg. T. KAWAKAMI).

December 14, 1911.

Botanical Museum,
Botanic Garden,
Besitenzorg,
Java.