

CHAPTER IV

DISCUSSION

This research is not much satisfactorily, though 8 species are found, because none of Padina Durvillaei Bory can be found. P. Durvillaei was reported to be found in Thailand only by Weber van Bosse (W. van B., 1913). Other 5 species that have been reported to be found in the Thai waters are P. australis Hauck, P. commersonii Bory (syn. P. boryana Thivy), P. gymnospora (Kütz.) Vickers, P. pavonica (Linn.) Thivy and P. tetrastromatica Hauck.

Among 8 species found this time, 3 species have not been reported before, they are P. distromatica Hauck, P. japonica Yamada and P. minor Yamada. The comparison of species previously reported and the results of this work are shown in table I, on page 43.

Table I Comparison of species reported in previous papers and this research.

	<u>P. australeis</u>	<u>P. boryana</u>	<u>P. distromatica</u>	<u>P. Durvillaei</u>	<u>P. gymnocarpa</u>	<u>P. japonica</u>	<u>P. minor</u>	<u>P. mayonica</u>	<u>P. tetrastromatica</u>
G.V. Martens (1966)	-	-	-	-	+	-	-	-	-
Weber van Bosse (1913)	+	+	-	+	-	-	-	+	+
J. Schmidt (1900 - 1916)	-	+	-	-	-	-	-	-	-
Results from this research	+	+	+	-	+	+	+	+	+

The collection for this research were not going well with the former plan. At first, the plan for collection was to go by boat along the east and west coasts of the gulf of Thailand and Indian Ocean. Owing to the limited fund, only specimens from certain places could be collected. If more collections from other places was done, more than 8 species should be discovered. This may be the reason why P. Durvillaei has not been found. In the paper of Dr. F. Thivy "A revision to the genus Padina

Adans", she stated that the geographical distribution of P. Durvillaei is in the Pacific Coast of North and South America, from Chile to Mexico.

From all the specimens used for this study, they were found that most of them are P. australis Hauck, P. boryana Thivy, P. distromatica Hauck, P. gymnospora (Kütz.) Vickers and P. tetrastromatica Hauck. Among these P. boryana Thivy was very common and abundant especially in the western part of Thailand, but P. tetrastromatica Hauck occur only in the eastern part of the gulf, and P. pavonica (Linn.) Thivy are rare. For those three species which are the new records: P. japonica Yamada are very rare and can be found at Sat-tahip, P. distromatica Hauck moderately occur in both eastern and western part of the gulf, while P. minor Yamada are moderately found in the western part of the gulf of Thailand and the east coast of the Indian Ocean, but less in the eastern part of the gulf.