

Rachid Pengseesang 2014: Application of Remote Sensing and Geographic Information System on Monitoring of Floating Weed in Nonghan, Sakon Nakhon Province. Master of Science (Fishery Management), Major Field: Fishery Management, Department of Fishery Management. Thesis Advisor: Assistant Professor Methee Keawnern, Ph.D. 89 pages.

Study on floating weeds or “Sanun” in Nonghan, Sakon Nakhon province by applying remote sensing (RS) and geographic information system (GIS) technology was conducted by collected spatial and attribute data at 12 stations, 4 times during November 2012 to October 2013. Gathered data and field surveys data were analyzed by using GIS software to create and record GIS features. The results showed that RS and GIS technology can be used as a tool to study floating weed in Nonghan. It was found that floating weeds were found mostly at That Choeng Chum in early November to May and at Tha Rae and Chiang Khrua during August to October. The volume in term of surface area of floating weed is varied by month., However, high volume was found in August 2013 with a total of 525,422 square meters.. The direction of floating weed movements were related to wind and monsoon. The study found that floating weed can be moved with a distance of 7 kilometers.

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Thesis Advisor’s signature

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