









Land Use Classes	2000 Image		
	Reference Points	Producer's Accuracy	User's Accuracy
Forest	35	77.14%	67.50%
Flooded forest	42	72.73%	96.00%
Swamp	49	97.96%	96.00%
Water	48	70.83%	75.56%
Other lands	81	93.83%	88.37%

Table 3. The results of accuracy assessment based on classification of 2000

Land Use Classes	2017 Image		
	Reference Points	Producer's Accuracy	User's Accuracy
Forest	38	41.67%	66.67%
Flooded forest	44	64.10%	83.33%
Swamp	37	100.00%	94.29%
Water	41	75.61%	59.62%
Other lands	95	94.74%	90.00%

Table 4. The results of accuracy assessment based on classification of 2017

Classification of 2017 image provided satisfactory results in terms of distinguishing swamp and other lands; however, accuracy of other land use types were relatively low. The highest producers and users accuracy was for swamp. The lowest producers and users accuracy was for forest and water, respectively.

#### 4. CONCLUSION

The flooded forests are very important ecosystems that are rich in terms of diverse flora and fauna. However, flooded forests are mostly degraded in many parts of the world. In order to restore flooded forests, the border of these forests should be carefully delineated, and special strategies should be developed for these areas. In this study, spatiotemporal changes of land use/land cover in the Karacabey Flooded Forest region were detected

based on series of Landsat images. The results indicated that the area of the flooded forest increased about 3% for 17 years periods.

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