

Table S1: Jeffries-Matusita spectral separability coefficients: values are between 1.9-2.0 among the different classes, except the combination “back-reef sand-algae and patch reef coral-sand” with a JM value of 1.8.

Input File: s2_atcor_band10m_mosaic.img ROI Name: (Jeffries-Matusita, Transformed Divergence)	
back reef - sand-algae: reef crest: (2.00000000 2.00000000) back reef - scattered coral: (2.00000000 2.00000000) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (1.87340166 1.99682883) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (2.00000000 2.00000000) back reef: (1.99994335 2.00000000) reef crest_1: (2.00000000 2.00000000)	pach reef - coarse sand: back reef - sand-algae: (2.00000000 2.00000000) reef crest: (2.00000000 2.00000000) back reef - scattered coral: (2.00000000 2.00000000) pach reef - coral-sand: (1.99999953 2.00000000) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (2.00000000 2.00000000) back reef: (2.00000000 2.00000000) reef crest_1: (2.00000000 2.00000000)
reef crest: back reef - sand-algae: (2.00000000 2.00000000) back reef - scattered coral: (2.00000000 2.00000000) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (2.00000000 2.00000000) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (2.00000000 2.00000000) back reef: (1.99999829 2.00000000) reef crest_1: (0.33336745 0.37604573)	pach reef - coral-sand: back reef - sand-algae: (1.87340166 1.99682883) reef crest: (2.00000000 2.00000000) back reef - scattered coral: (1.99999927 1.99999999) pach reef - coarse sand: (1.99999953 2.00000000) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (2.00000000 2.00000000) back reef: (1.99999953 2.00000000) reef crest_1: (2.00000000 2.00000000)
back reef - scattered coral: back reef - sand-algae: (2.00000000 2.00000000) reef crest: (2.00000000 2.00000000) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (1.99999927 1.99999999) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (1.99918276 1.99973217) back reef: (1.99785745 1.99989728) reef crest_1: (2.00000000 2.00000000)	shallow lagoon: back reef - sand-algae: (2.00000000 2.00000000) reef crest: (2.00000000 2.00000000) back reef - scattered coral: (2.00000000 2.00000000) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (2.00000000 2.00000000) back reef - sand: (2.00000000 2.00000000) back reef: (2.00000000 2.00000000) reef crest_1: (2.00000000 2.00000000)
back reef - sand: back reef - sand-algae: (2.00000000 2.00000000) reef crest: (2.00000000 2.00000000) back reef - scattered coral: (1.99918276 1.99973217) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (2.00000000 2.00000000) shallow lagoon: (2.00000000 2.00000000) back reef: (1.99960673 1.9998415) reef crest_1: (2.00000000 2.00000000)	Pair Separation back reef - sand-algae and pach reef - coral-sand - 1.87340166 back reef - scattered coral and back reef - 1.99785745 back reef - scattered coral and back reef - sand - 1.99918276 back reef - sand and back reef - 1.99960673 back reef - sand-algae and back reef - 1.99994335 back reef and reef crest_1 - 1.99996270 reef crest and back reef - 1.99999829 back reef - scattered coral and pach reef - coral-sand - 1.99999927 pach reef - coral-sand and back reef - 1.99999953 pach reef - coarse sand and pach reef - coral-sand - 1.99999953 pach reef - coarse sand and back reef - 2.00000000 pach reef - coral-sand and reef crest_1 - 2.00000000 back reef - scattered coral and pach reef - coarse sand - 2.00000000 pach reef - coarse sand and back reef - sand - 2.00000000 pach reef - coral-sand and shallow lagoon - 2.00000000 pach reef - coral-sand and back reef - sand - 2.00000000 reef crest and pach reef - coral-sand - 2.00000000 back reef - sand-algae and back reef - scattered coral - 2.00000000 back reef - sand-algae and shallow lagoon - 2.00000000 shallow lagoon and reef crest_1 - 2.00000000 back reef - sand and reef crest_1 - 2.00000000 back reef - sand-algae and pach reef - coarse sand - 2.00000000 back reef - sand-algae and back reef - sand - 2.00000000 reef crest and back reef - sand - 2.00000000 back reef - scattered coral and reef crest_1 - 2.00000000 shallow lagoon and back reef - 2.00000000 pach reef - coarse sand and reef crest_1 - 2.00000000 shallow lagoon and back reef - sand - 2.00000000 pach reef - coarse sand and shallow lagoon - 2.00000000 back reef - scattered coral and shallow lagoon - 2.00000000 reef crest and back reef - scattered coral - 2.00000000 reef crest and shallow lagoon - 2.00000000 back reef - sand-algae and reef crest - 2.00000000 back reef - sand-algae and reef crest_1 - 2.00000000 reef crest and pach reef - coarse sand - 2.00000000
back reef: back reef - sand-algae: (1.99994335 2.00000000) reef crest: (1.99999829 2.00000000) back reef - scattered coral: (1.99785745 1.99989728) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (1.99999953 2.00000000) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (1.99960673 1.9998415) reef crest_1: (1.99996270 2.00000000)	
reef crest_1: back reef - sand-algae: (2.00000000 2.00000000) reef crest: (0.33336745 0.37604573) back reef - scattered coral: (2.00000000 2.00000000) pach reef - coarse sand: (2.00000000 2.00000000) pach reef - coral-sand: (2.00000000 2.00000000) shallow lagoon: (2.00000000 2.00000000) back reef - sand: (2.00000000 2.00000000) back reef: (1.99996270 2.00000000)	