

Validation

Validation was focused on the 3 priority bioregions, and was undertaken separately by three DPIWE regional officers. Darren Kidd, Land Resource Assessment Officer from Launceston, collected validation data for the Northern Midlands and Northern Slopes bioregions. Bill Cotching, Principal Land Management Officer, collected validation data for the western section of the Northern Slopes bioregion. Marcus Hardie, Regional Land Management Officer from Hobart, collected validation data for the South East bioregion. Validation points were collected regularly along routes predetermined to represent all of the major land use classes mapped in Tasmania. A total of 772 validation points were collected over a two week period in January 2003 – Fig 2. GPS points were collected by a Garmin GPS and land use attributes entered in a notebook. Waypoints were downloaded into the GIS and visually compared with the land use maps to prepare the error matrix presented in Table 3.

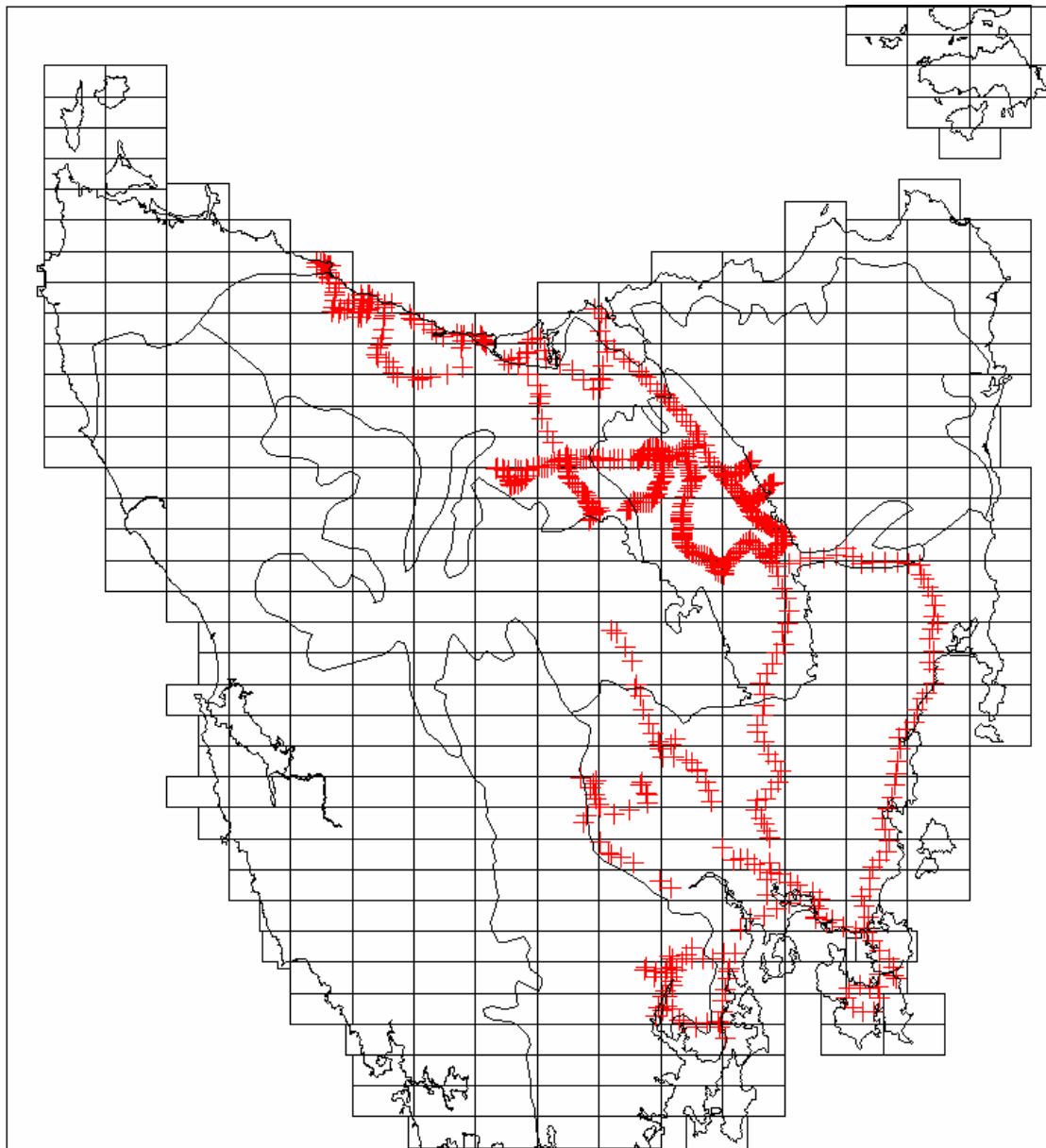


Figure 2. Location of validation sample sites.

Code	1.0.0	1.3.3	2.1.0	2.2.0	3.1.0	3.2.0	3.3.0	4.2.0	4.3.0	4.4.0	4.4.4	5.3.0	5.4.1	5.4.2	5.5.1	5.5.2	5.5.3	5.5.5	5.7.0	5.8.0	5.9.0	TOT AL	Row%	
1.0.0	17																					17	100.00	
1.3.3		18	5																			23	78.26	
2.1.0			38			1	1															40	95.00	
2.2.0				13	1																	14	92.86	
3.1.0					22																	22	100.00	
3.2.0		1	3		2			9	57				2				1				1	336	77.38	
3.3.0							2															2	100.00	
4.2.0								16														16	100.00	
4.3.0						4			172													176	97.77	
4.4.0									1	15												16	93.75	
4.4.4											3											3	100.00	
5.3.0												5										5	100.00	
5.4.1													56									56	100.00	
5.4.2														23								23	100.00	
5.5.1															6							6	100.00	
5.5.2																2						2	100.00	
5.5.3																	5					5	100.00	
5.5.5																		5				5	100.00	
5.7.0																					1	1	100.00	
5.8.0					1																	2	3	66.66
5.9.0																						1	1	100.00
Total	17	19	46	13	26	265	3	25	230	15	3	5	58	23	6	2	6	5	1	3	1	772		
Col%	100	94.74	82.61	100	84.62	98.11	66.66	64.00	74.78	100	100	100	96.55	100	100	100	83.33	100	100	66.66	100			

Table 3. Error matrix for Tasmanian land use dataset. Overall accuracy – sum of diagonals (682)/772 = 88.34%