

Towards an Operational SAR-Based Rice Monitoring System in Asia: Examples from 13 Demonstration Sites across Asia in the RIICE Project. *Remote Sensing* 2014, 6, 10773–10812

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Table S1. SAR acquisition tables for the 13 sites.

Site ID 1 (Cambodia, Takeo)		
Satellite and band	CSK1, X	
Swath (km)	40 × 40	
Incidence angle (°)	40	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	12 October 2012	11:00 PM
Back up	28 October 2012	11:00 PM
	13 November 2012	11:00 PM
	29 November 2012	11:00 PM
	15 December 2012	11:00 PM
	31 December 2012	11:00 PM
	16 January 2013	11:00 PM
	1 February 2013	11:00 PM
	17 February 2013	11:00 PM
	5 March 2013	11:00 PM
	21 March 2013	11:00 PM
	6 April 2013	11:00 PM

Table S1. Cont.

Site ID 2 (Philippines, Leyte East)		
Satellite and band	CSK4, X	
Swath (km)	40 × 40	
Incidence angle (°)	46	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Descending	
Acquisition information	Date	Time
Planned	15 May 2013	9:17 AM
Back up (CSK1)	31 May 2013	9:17 AM
	16 June 2013	9:16 AM
	2 July 2013	9:16 AM
	18 July 2013	9:16 AM
	7 Augst 2013	9:16 AM
	15 Auguet 2013	9:16 AM
	19 August 2013	9:16 AM
	4 September 2013	9:16 AM
	20 September 2013	9:16 AM
Site ID 3 (Philippines, Leyte West)		
Satellite and band	CSK3, X	
Swath (km)	40 × 40	
Incidence angle (°)	48	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Descending	
Acquisition information	Date	Time
Planned	12 May 2013	9:17 AM
Back up (CSK4/CSK1)	28 May 2013	9:17 AM
	13 June 2013	9:16 AM
	29 June 2013	9:16 AM
	15 July 2013	9:16 AM
	3 August 2013	9:16 AM
	23 August 2013	9:16 AM
	8 September 2013	9:16 AM
	24 September 2013	9:16 AM

Table S1. Cont.

Site ID 4 (Philippines, Agusan del Norte)		
Satellite and band	CSK2, X	
Swath (km)	40 × 40	
Incidence angle (°)	39	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Descending	
Acquisition information	Date	Time
Planned	27 May 2013	9:17 AM
Back up (CSK3/CSK4)	12 June 2013	9:17 AM
	28 June 2013	9:17 AM
	15 July 2013	9:17 AM
	30 July 2013	9:17 AM
	15 August 2013	9:17 AM
	31 August 2013	9:16 AM
	16 September 2013	9:16 AM
	6 October 2013	9:16 AM
Site ID 5 (Vietnam, Soc Trang)		
Satellite and band	CSK4, X	
Swath (km)	40 × 40	
Incidence angle (°)	46	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	5 June 2013	11:02 PM
Back up	21 June 2013	11:02 PM
	7 July 2013	11:02 PM
	23 July 2013	11:02 PM
	8 August 2013	11:01 PM
	24 August 2013	11:01 PM
	9 September 2013	11:01 PM
	25 September 2013	11:01 PM

Table S1. Cont.

Site ID 6 (Vietnam, Nam Dinh)		
Satellite and band	CSK2, X	
Swath (km)	40 × 40	
Incidence angle (°)	40	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	26 May 2014	10:53 PM
Back up (CSK4/CSK1/CSK3)	15 June 2013	10:53 PM
	19 June 2013	10:53 PM
	27 June 2013	10:53 PM
	13 July 2013	10:52 PM
	29 July 2013	10:52 PM
	14 August 2013	10:52 PM
	30 August 2013	10:52 PM
	15 September 2013	10:52 PM
	2 October 2013	10:52 PM
	17 October 2013	10:52 PM
Site ID 7 (Indonesia, Subang)		
Satellite and band	CSK4, X	
Swath (km)	40 × 40	
Incidence angle (°)	46	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Descending	
Acquisition information	Date	Time
Planned	26 November 2013	10:15 AM
Back up (CSK1)	12 December 2013	10:15 AM
	28 December 2013	10:15 AM
	13 January 2014	10:15 AM
	29 January 2014	10:14 AM
	14 February 2014	10:14 AM
	6 March 2014	10:14 AM
	22 March 2014	10:14 AM
	23 April 2014	10:14 AM

Table S1. Cont.

Site ID 8 (India, Cuddalore)		
Satellite and band	CSK2, X	
Swath (km)	40 × 40	
Incidence angle (°)	44	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	24 August 2013	12:45 AM
Back up (CSK1)	1 September 2013	12:45 AM
	17 September 2013	12:45 AM
	3 October 2013	12:45 AM
	19 October 2013	12:45 AM
	4 November 2013	12:45 AM
	20 November 2013	12:45 AM
	6 December 2013	12:45 AM
	22 December 2013	12:45 AM
	7 January 2014	12:44 AM
Site ID 9 (India, Thanjavur)		
Satellite and band	CSK2, X	
Swath (km)	40 × 40	
Incidence angle (°)	41	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	16 August 2013	12:45 AM
Back up (CSK4)	1 September 2013	12:45 AM
	17 September 2013	12:45 AM
	3 October 2013	12:45 AM
	19 October 2013	12:45 AM
	4 November 2013	12:45 AM
	24 November 2013	12:44 AM
	10 December 2013	12:44 AM
	26 December 2013	12:44 AM

Table S1. Cont.

Site ID 10 (India, Sivaganga)		
Satellite and band	TSX, X	
Swath (km)	30 × 50	
Incidence angle (°)	44	
Polarization	HH	
Mode	Stripmap	
Ground resolution (m)	3	
Orbit cycle (days)	11	
Orbit direction	Descending	
Acquisition information	Date	Time
Planned	18 August 2013	12:35 AM
	29 August 2013	12:35 AM
	20 September 2013	12:35 AM
	1 October 2013	12:35 AM
	12 October 2013	12:35 AM
	23 October 2013	12:35 AM
	3 November 2013	12:35 AM
	14 November 2013	12:35 AM
	25 November 2013	12:35 AM
	6 December 2013	12:35 AM
	17 December 2013	12:35 AM
Site ID 11 (Thailand, Muang Yang)		
Satellite and band	CSK2, X	
Swath (km)	40 × 40	
Incidence angle (°)	43	
Mode	Stripmap	
Polarization	HH	
Ground resolution (m)	3	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	27 May 2013	11:06 PM
Back up	12 June 2013	11:06 PM
	14 July 2013	11:06 PM
	30 July 2013	11:06 PM
	15 August 2013	11:06 PM
	31 August 2013	11:06 PM
	16 September 2013	11:06 PM
	2 October 2013	11:06 PM
	18 October 2013	11:06 PM
	3 November 2013	11:06 PM

Table S1. Cont.

Site ID 12 (Thailand, Suphan Buri)		
Satellite and band	CSK2, X	
Swath (km)	140 × 100	
Incidence angle (°)	45	
Polarization	HH	
Mode	ScanSAR	
Ground resolution (m)	15	
Orbit cycle (days)	16	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	18 June 2013	11:21 PM
Back up (CSK4)	4 July 2013	11:21 PM
	20 July 2013	11:21 PM
	5 August 2013	11:21 PM
	25 August 2014	11:21 PM
	6 September 2013	11:21 PM
	12 October 2013	11:21 PM
Site ID 13 (Philippines, Nueva Ecija)		
Satellite and band	TSX, X	
Swath (km)	100 × 150	
Incidence angle (°)	45	
Polarization	HH	
Mode	ScanSAR	
Ground resolution (m)	10	
Orbit cycle (days)	11	
Orbit direction	Ascending	
Acquisition information	Date	Time
Planned	2 May 2013	10:06 AM
	5 June 2013	10:06 AM
	16 June 2013	10:06 AM
	27 June 2013	10:06 AM
	8 July 2013	10:06 AM
	19 July 2013	10:06 AM
	30 July 2013	10:06 AM
	1 September 2013	10:06 AM
	12 September 2013	10:06 AM
	23 September 2013	10:06 AM

Table S2. Temporal signatures for monitored fields in the 13 sites. All values in dB.

Site ID 1 (Cambodia, Takeo)												
Field	Long (°)	Lat (°)	13 November	29 November	15 December	31 December	16 January	1 February	17 February	5 March	21 March	
1	104.93849	11.03815	−19.50	−14.05	−7.20	−8.20	−12.17	−11.56	−11.24	−13.36	−15.42	
2	104.95284	11.03925	−14.16	−12.21	−6.98	−10.08	−12.68	−12.13	−12.91	−14.12	−14.93	
3	104.93456	11.01792	−14.41	−10.45	−5.98	−9.05	−11.03	−11.74	−13.36	−13.90	−14.63	
4	104.95742	11.12065	−12.95	−12.99	−9.80	−7.31	−9.15	−10.51	−11.03	−11.07	−14.83	
Site ID 2 (Philippines, Leyte East)												
Field	Long (°)	Lat (°)	15 May	31 May	16 June	2 July	18 July	7 August	15 August	19 August	4 September	20 September
1	125.02524	10.97517	−9.13	−10.16	−9.22	−9.35	−9.86	−10.43	−11.87	−11.00	−9.52	−8.61
2	125.02312	10.97617	−9.38	−11.16	−7.80	−13.11	−12.74	−9.39	−10.56	−10.99	−9.29	−11.25
3	125.02427	10.97657	−8.91	−10.38	−7.21	−10.02	−10.24	−8.42	−9.20	−9.90	−11.21	−12.09
4	125.02531	10.97689	−9.73	−9.82	−9.36	−13.82	−14.15	−9.65	−10.77	−11.07	−12.93	−12.74
5	125.00068	11.03898	−11.21	−9.68	−10.06	−14.78	−10.70	−9.13	−9.42	−9.30	−9.92	−13.07
6	125.00149	11.03934	−11.85	−9.59	−10.27	−9.13	−12.35	−14.01	−14.03	−12.89	−10.52	−11.71
7	125.00107	11.03947	−11.53	−7.96	−7.60	−13.66	−9.00	−7.21	−8.59	−8.38	−9.56	−12.64
8	124.97731	11.09825	−12.65	−12.18	−11.86	−9.90	−11.31	−14.70	−15.29	−12.31	−10.89	−11.19
9	124.97477	11.09850	−11.87	−11.83	−11.71	−12.48	−13.29	−9.84	−10.81	−10.78	−13.06	−14.12
10	124.97827	11.09826	−12.26	−10.99	−8.55	−14.90	−14.82	−9.42	−10.99	−11.01	−12.34	−12.91
11	124.97742	11.09866	−12.42	−12.22	−11.98	−10.58	−17.43	−8.79	−11.55	−12.24	−13.79	−15.03
12	124.95348	11.13708	−10.22	−9.78	−10.03	−8.48	−8.98	−8.98	−13.82	−13.61	−6.64	−8.57
13	124.95535	11.14104	−9.63	−9.41	−9.00	−7.03	−8.20	−12.41	−11.85	−11.06	−6.50	−6.75
14	124.95473	11.14201	−10.86	−10.83	−10.55	−9.95	−9.97	−11.42	−11.19	−12.85	−9.68	−9.27
15	124.92135	11.18680	−12.56	−10.61	−8.85	−10.19	−10.75	−7.75	−11.62	−12.07	−13.41	−14.47
16	124.92176	11.18737	−10.59	−9.53	−7.93	−8.08	−11.81	−7.15	−8.74	−8.76	−8.97	−9.88
17	124.92108	11.18755	−12.45	−10.92	−9.15	−8.55	−12.83	−8.64	−11.23	−11.20	−12.33	−13.59
18	124.84258	11.20993	−11.52	−10.42	−10.87	−9.85	−14.09	−8.65	−8.27	−6.89	−7.97	−10.83
19	124.85043	11.21107	−8.91	−8.21	−6.94	−6.56	−12.45	−12.51	−12.14	−12.71	−6.38	−5.09
20	124.85088	11.21124	−11.44	−10.95	−8.59	−9.29	−13.51	−13.45	−12.78	−11.87	−7.81	−7.64

Table S2. Cont.

Site ID 3 (Philippines, Leyte West)											
Field	Long (°)	Lat (°)	12 May	28 May	13 June	29 June	15 July	3 August	23 August	8 September	24 September
1	124.55630	11.03628	−9.23	−8.43	−4.93	−15.73	−12.60	−5.73	−8.45	−8.79	−11.90
2	124.55669	11.03724	−11.61	−10.27	−8.40	−16.22	−12.69	−7.56	−11.09	−11.74	−12.95
3	124.55328	11.03991	−10.71	−6.39	−12.03	−12.97	−7.76	−10.32	−12.80	−11.47	−11.53
4	124.55255	11.03995	−11.14	−9.87	−9.34	−14.39	−12.28	−8.69	−11.92	−12.91	−12.67
5	124.55351	11.04097	−10.48	−9.37	−9.14	−12.46	−10.57	−10.21	−12.48	−12.86	−12.38
6	124.55462	11.05616	−8.65	−9.80	−7.89	−14.75	−12.53	−7.08	−10.83	−11.01	−11.49
7	124.55813	11.06157	−7.96	−7.74	−5.45	−15.92	−10.25	−6.89	−11.11	−10.81	−11.20
8	124.55442	11.06826	−8.15	−8.93	−12.80	−11.81	−9.47	−10.68	−12.10	−11.42	−10.44
9	124.55127	11.07338	−11.07	−7.90	−12.38	−16.77	−8.11	−9.77	−12.24	−10.98	−10.18
10	124.55241	11.07423	−7.42	−9.49	−15.33	−15.61	−7.69	−9.57	−11.93	−11.87	−8.43
11	124.47792	11.15220	−8.83	−9.26	−15.63	−17.81	−9.43	−7.69	−10.73	−10.95	−12.25
12	124.47824	11.15251	−8.55	−8.92	−16.22	−18.05	−9.36	−5.77	−8.37	−10.63	−11.39
13	124.47854	11.15303	−4.94	−6.26	−13.19	−16.01	−7.36	−4.53	−6.88	−8.07	−10.01
14	124.47897	11.15364	−7.34	−7.63	−14.17	−17.08	−11.32	−7.43	−9.74	−10.10	−11.92
15	124.47926	11.15401	−6.95	−7.98	−15.24	−17.32	−14.41	−12.36	−8.91	−9.40	−12.02
16	124.53886	11.17206	−10.37	−11.68	−14.44	−13.04	−6.52	−9.43	−11.62	−11.75	−12.98
17	124.53953	11.17253	−8.11	−16.07	−15.87	−9.05	−7.90	−10.94	−12.28	−11.46	−11.14
18	124.53891	11.17343	−7.96	−15.85	−12.11	−5.68	−9.43	−11.00	−10.38	−4.37	−9.05
19	124.53827	11.17360	−7.62	−9.24	−16.12	−10.63	−6.56	−8.59	−11.58	−11.64	−10.31
20	124.53802	11.17411	−9.08	−15.50	−14.53	−12.15	−8.26	−8.89	−11.58	−11.74	−12.28
Site ID 4 (Philippines, Agusan del Norte)											
Field	Long (°)	Lat (°)	27 May	12 June	28 June	15 July	30 July	15 August	31 August	16 September	6 October
1	125.59744	9.01679	−6.64	−5.89	−13.02	−7.64	−14.26	−8.15	−5.97	−7.19	−9.06
2	125.56070	8.90459	−9.22	−9.51	−15.41	−13.33	−10.23	−7.58	−5.38	−6.67	−7.72
3	125.50389	8.92480	−11.24	−12.28	−12.61	−8.73	−7.28	−6.98	−7.45	−10.64	−10.65
4	125.46327	8.98103	−9.18	−8.88	−17.62	−12.81	−11.63	−9.21	−9.49	−10.52	−10.76
5	125.58364	8.94487	−7.69	−8.25	−8.38	−11.62	−12.80	−10.32	−8.73	−8.53	−9.11

Table S2. Cont.

Site ID 4 (Philippines, Agusan del Norte)											
Field	Long (°)	Lat (°)	27 May	12 June	28 June	15 July	30 July	15 August	31 August	16 September	6 October
7	125.53785	8.97926	−10.66	−9.32	−12.12	−8.42	−7.60	−9.45	−9.40	−9.91	−8.20
8	125.58078	8.97020	−15.59	−9.51	−13.18	−8.13	−6.65	−4.96	−10.12	−10.50	−8.93
9	125.60587	9.00957	−10.05	−9.63	−14.29	−12.43	−9.79	−9.26	−8.73	−9.76	−11.88
10	125.59012	9.04844	−9.53	−10.00	−14.80	−9.56	−15.44	−11.34	−8.23	−8.17	−8.91
11	125.57941	9.07067	−9.01	−8.29	−17.44	−14.47	−14.07	−6.69	−4.96	−5.16	−8.44
12	125.58771	9.06647	−11.22	−10.40	−10.04	−8.84	−14.39	−12.72	−8.21	−7.79	−8.27
13	125.57484	9.07638	−8.80	−8.82	−14.97	−14.96	−15.13	−11.82	−8.59	−7.91	−9.20
14	125.55492	9.09828	−8.51	−9.34	−11.96	−11.29	−15.06	−9.83	−9.29	−7.43	−8.49
15	125.56358	9.07770	−8.50	−9.30	−11.35	−15.98	−12.38	−7.82	−8.77	−7.43	−10.39
16	125.58798	9.08435	−8.42	−10.29	−16.21	−9.24	−12.24	−6.41	−6.95	−8.66	−10.39
17	125.54155	9.09396	−10.18	−11.15	−7.43	−11.23	−14.50	−9.34	−9.47	−8.70	−8.51
20	125.72680	8.73739	−8.98	−7.48	−7.54	−9.05	−11.40	−9.31	−7.15	−9.04	−11.13
Site ID 5 (Vietnam, Soc Trang)											
Field	Long	Lat	5 June	21 June	7 July	23 July	8 August	24 August	9 September	25 September	
1	105.965913	9.775481	−13.84	−7.62	−10.45	−12.67	−12.28	−11.52	−10.53	−16.56	
3	105.957926	9.721927	−14.60	−9.67	−8.90	−10.79	−12.78	−13.17	−9.66	−16.18	
4	105.918774	9.543082	−15.08	−15.91	−7.76	−8.98	−10.88	−12.96	−13.27	−8.14	
5	106.079608	9.499068	−15.67	−8.76	−9.94	−11.05	−13.63	−12.71	−13.83	−10.24	
6	106.004089	9.612447	−14.11	−10.27	−9.61	−11.57	−11.80	−11.89	−12.53	−19.22	
7	106.007016	9.668021	−8.33	−6.15	−8.10	−9.41	−10.04	−9.26	−12.01	−9.73	
8	106.141411	9.606122	−8.04	−16.70	−7.80	−11.09	−12.95	−13.80	−12.30	−12.25	
9	106.138876	9.517359	−6.65	−7.34	−14.97	−15.29	−6.19	−10.87	−12.42	−12.27	
10	106.013513	9.542593	−9.07	−19.25	−8.87	−8.05	−10.29	−12.61	−12.19	−9.95	
11	105.952962	9.668283	−12.24	−12.73	−8.27	−8.94	−12.25	−12.58	−12.08	−9.05	
12	106.014508	9.519999	−9.98	−20.21	−6.94	−7.70	−8.91	−13.38	−13.07	−7.59	

Table S2. Cont.

Site ID 6 (Vietnam, Nam Dinh)													
Field	Long (°)	Lat (°)	26 May	15 June	19 June	27 June	13 July	29 July	14 August	30 August	15 September	1 October	17 October
1	106.01513	20.29213	−10.85	−7.23	−15.00	−17.68	−15.25	−7.31	−8.71	−11.96	−10.35	−10.02	−7.76
2	106.01510	20.28944	−11.96	−7.76	−7.45	−16.92	−13.62	−6.25	−10.19	−12.46	−11.69	−11.46	−9.16
3	106.01740	20.29424	−10.94	−7.95	−7.04	−14.98	−15.56	−7.24	−9.32	−12.72	−10.99	−11.55	−12.00
4	106.01612	20.29709	−10.95	−14.40	−13.20	−18.69	−16.98	−9.63	−10.49	−12.56	−11.81	−11.13	−10.92
5	106.01755	20.30053	−8.50	−7.69	−14.53	−14.75	−11.77	−9.03	−7.56	−9.09	−8.27	−7.18	−8.14
6	106.01543	20.29934	−11.20	−7.41	−13.62	−13.91	−11.90	−7.72	−8.31	−10.87	−10.07	−9.87	−9.17
7	106.01282	20.29849	−10.59	−6.87	−7.27	−17.22	−15.63	−7.80	−9.12	−11.75	−10.93	−10.82	−10.96
8	106.01221	20.29514	−6.95	−11.33	−8.91	−17.12	−15.80	−7.01	−8.83	−12.13	−11.04	−11.24	−10.32
9	106.02036	20.30189	−11.01	−12.68	−15.31	−14.65	−17.42	−12.93	−5.16	−8.93	−10.31	−10.49	−9.51
10	106.00566	20.30260	−11.73	−12.07	−7.83	−8.19	−14.49	−7.77	−7.93	−9.54	−8.63	−9.97	−8.98
11	106.00478	20.30521	−9.47	−6.69	−7.77	−8.80	−14.71	−6.98	−4.57	−10.86	−12.45	−12.74	−11.64
12	106.00791	20.30493	−12.46	−15.88	−11.80	−11.76	−12.76	−9.37	−9.41	−11.91	−11.68	−11.65	−9.79
13	106.01003	20.30763	−12.49	−7.99	−8.73	−14.32	−16.94	−9.55	−7.04	−9.40	−9.91	−9.86	−8.49
14	106.01244	20.30578	−10.13	−5.59	−7.04	−17.21	−15.86	−5.94	−8.05	−9.84	−9.34	−9.53	−7.50
15	106.01465	20.30704	−11.62	−7.89	−17.12	−17.65	−16.01	−8.00	−9.70	−10.93	−10.72	−10.72	−7.08
16	106.01254	20.30957	−11.86	−6.70	−17.15	−18.26	−16.67	−7.96	−7.72	−10.65	−11.53	−10.58	−9.68
17	106.01518	20.30482	−10.69	−7.15	−15.49	−18.72	−15.38	−6.26	−10.33	−12.75	−11.92	−11.22	−9.60
18	106.01772	20.30390	−11.23	−10.84	−7.95	−17.80	−15.73	−6.78	−7.20	−11.52	−10.47	−10.46	−10.52
19	106.01749	20.29086	−10.27	−9.35	−7.57	−11.07	−12.14	−8.28	−8.01	−8.28	−7.40	−8.29	−7.74
20	106.02597	20.30771	−10.90	−6.69	−6.95	−13.68	−13.33	−11.95	−5.19	−9.09	−9.84	−9.41	−10.27

Table S2. Cont.

Site ID 7 (Indonesia, Subang)											
Field	Long (°)	Lat (°)	26 November	12 December	28 December	13 January	29 January	14 February	6 March	22 March	23 April
1	107.66629	−6.28433	−14.97	−12.98	−12.67	−12.47	−9.44	−10.80	−11.88	−11.49	−16.22
2	107.66998	−6.28751	−9.31	−17.20	−17.97	−12.10	−8.24	−8.75	−11.92	−11.13	−15.10
3	107.67270	−6.29058	−17.37	−15.62	−16.62	−10.23	−10.07	−11.78	−12.32	−12.70	−15.52
4	107.67358	−6.29581	−16.43	−18.69	−13.81	−8.88	−8.79	−12.42	−13.03	−11.81	−14.24
5	107.67597	−6.29921	−15.09	−18.03	−15.39	−9.75	−9.18	−12.00	−11.79	−11.63	−15.59
6	107.68416	−6.30916	−19.84	−15.63	−13.04	−9.35	−10.91	−13.40	−11.86	−11.05	−15.23
7	107.72130	−6.31160	−12.01	−19.35	−19.85	−9.96	−9.95	−12.00	−12.28	−10.70	−16.23
8	107.72311	−6.31428	−10.16	−14.54	−14.55	−14.46	−9.32	−10.33	−10.85	−10.01	−15.57
9	107.72461	−6.31793	−11.87	−15.19	−16.55	−10.18	−8.72	−11.34	−11.98	−10.67	−15.58
10	107.72721	−6.32350	−10.56	−18.71	−19.11	−11.36	−10.68	−10.84	−12.55	−13.11	−19.30
11	107.72915	−6.32839	−11.68	−10.47	−17.31	−9.87	−10.26	−11.63	−11.21	−11.11	−15.80
12	107.73427	−6.33296	−15.56	−19.54	−19.47	−10.95	−10.03	−13.33	−12.33	−11.57	−15.31
13	107.79853	−6.27350	−10.63	−10.84	−14.70	−20.05	−19.72	−15.98	−16.15	−12.89	−16.89
14	107.80378	−6.27393	−9.72	−9.66	−13.05	−18.51	−18.69	−16.29	−17.71	−15.85	−17.89
15	107.80596	−6.27577	−9.31	−10.06	−12.02	−17.04	−19.51	−14.31	−15.91	−15.19	−16.71
16	107.80962	−6.27612	−8.09	−10.01	−15.34	−19.14	−20.12	−17.15	−17.80	−15.93	−17.90
17	107.81341	−6.27562	−9.77	−10.28	−13.38	−18.63	−20.63	−15.96	−17.46	−14.46	−17.30
18	107.77557	−6.29467	−9.64	−14.30	−16.25	−19.69	−19.83	−15.24	−10.98	−10.89	−17.97
19	107.76506	−6.29768	−17.47	−17.27	−20.50	−18.30	−13.99	−11.10	−14.04	−15.05	−20.72
20	107.75865	−6.29961	−7.84	−14.57	−18.46	−14.18	−8.33	−8.35	−10.84	−12.92	−19.49

Table S2. Cont.

Site ID 8 (India, Cuddalore)												
Field	Long (°)	Lat (°)	24 August	1 September	17 September	3 October	19 October	4 November	20 November	6 December	22 December	7 January
3	79.710991	11.772051	−9.51	−10.48	−14.18	−11.32	−8.38	−8.24	−9.98	−7.88	−11.45	−11.10
4	79.706385	11.791127	−12.41	−13.23	−13.85	−12.10	−9.04	−9.38	−9.01	−11.06	−11.78	−10.79
5	79.701554	11.78356	−12.35	−12.77	−12.77	−8.08	−7.29	−10.42	−12.15	−11.39	−11.94	−10.58
6	79.697605	11.776961	−11.02	−10.52	−12.56	−9.65	−8.71	−9.03	−11.47	−10.71	−12.12	−11.31
7	79.701453	11.774619	−11.57	−14.47	−14.00	−8.86	−9.44	−9.57	−10.41	−11.05	−13.06	−11.72
8	79.695993	11.768977	−9.76	−7.60	−14.57	−10.08	−7.40	−7.09	−6.77	−8.47	−11.13	−8.98
9	79.650182	11.785037	−11.05	−12.33	−11.49	−9.50	−8.70	−9.97	−9.47	−11.19	−12.17	−9.42
10	79.646207	11.792831	−9.70	−15.73	−13.94	−9.40	−8.53	−10.30	−12.51	−11.58	−9.67	−11.50
11	79.644605	11.791289	−11.06	−11.09	−12.04	−11.98	−7.71	−7.25	−9.48	−8.82	−12.77	−12.82
12	79.642209	11.780775	−10.70	−10.39	−12.51	−8.58	−7.45	−6.99	−8.43	−10.19	−9.28	−11.02
13	79.637844	11.779442	−9.22	−9.21	−14.05	−10.83	−7.97	−9.87	−11.65	−11.62	−10.09	−11.61
14	79.640856	11.778705	−13.43	−15.52	−13.94	−12.50	−8.91	−9.20	−10.45	−13.88	−12.66	−14.51
15	79.633859	11.774145	−13.92	−13.71	−13.47	−12.33	−8.93	−10.19	−9.67	−11.60	−11.34	−12.83
16	79.632437	11.77142	−10.23	−11.42	−12.07	−11.13	−10.24	−9.62	−10.12	−11.40	−11.78	−12.86
17	79.624	11.75305	−11.07	−10.67	−13.72	−12.67	−8.77	−7.47	−11.45	−11.39	−12.71	−12.35
18	79.681665	11.746029	−11.02	−12.55	−12.79	−9.02	−6.62	−7.63	−10.19	−10.57	−12.30	−11.08
19	79.68958	11.754018	−11.26	−11.71	−12.02	−6.91	−7.68	−7.71	−9.91	−9.56	−11.90	−10.16
20	79.691866	11.755856	−9.17	−11.92	−16.34	−11.92	−8.73	−8.10	−8.77	−8.69	−11.60	−8.83

Table S2. Cont.

Site ID 9 (India, Thanjavur)													
Field	Long (°)	Lat (°)	16 August	1 September	17 September	3 October	19 October	4 November	24 November	10 December	26 December		
6	79.39058	10.87269	−10.30	−11.01	−11.63	−13.61	−15.46	−10.54	−6.18	−8.74	−9.54		
9	79.40441	10.79119	−10.16	−10.89	−9.98	−14.34	−11.61	−6.96	−6.50	−8.28	−10.43		
11	79.35088	10.78503	−9.70	−10.66	−9.75	−12.83	−11.69	−7.73	−6.44	−8.99	−9.24		
12	79.27023	10.78823	−9.07	−9.41	−11.60	−11.47	−12.53	−10.52	−6.40	−6.61	−8.81		
13	79.26886	10.83435	−8.42	−7.11	−11.48	−12.17	−11.60	−15.46	−9.23	−7.10	−6.98		
17	79.38956	10.87619	−10.31	−10.31	−11.99	−16.21	−13.51	−7.15	−6.58	−8.09	−9.17		
Site ID 10 (India, Sivaganga)													
Field	Long (°)	Lat (°)	8 August1	29 August	20 September	1 October	12 October	23 October	3 November	14 November	25 November	17 December	19 January
1	78.63404	9.99781	−8.04	−7.78	−9.65	−9.49	−8.02	−9.21	−13.05	−10.05	−8.93	−8.82	−10.83
2	78.63087	10.00260	−12.08	−9.90	−11.01	−10.80	−8.51	−9.63	−10.05	−10.51	−9.96	−10.71	−12.72
3	78.63243	10.00686	−10.18	−8.54	−10.01	−10.96	−9.00	−9.59	−10.96	−10.30	−9.95	−11.16	−12.63
4	78.63343	10.00785	−8.66	−7.02	−9.61	−9.76	−8.23	−8.78	−11.20	−10.11	−7.34	−10.12	−11.65
5	78.63455	10.00656	−9.27	−9.19	−11.16	−11.88	−10.35	−11.34	−11.59	−11.79	−10.81	−12.49	−13.05
6	78.61977	9.97621	−8.58	−8.33	−11.33	−12.44	−9.88	−12.61	−12.05	−12.33	−11.02	−12.74	−14.24
7	78.62185	9.97608	−10.51	−8.57	−11.07	−12.40	−8.84	−11.53	−11.22	−10.75	−8.79	−11.09	−12.94
8	78.62146	9.97460	−7.91	−5.68	−10.98	−12.12	−7.67	−11.08	−11.84	−11.55	−10.12	−11.99	−12.34
9	78.61994	9.97428	−6.79	−7.94	−12.53	−12.77	−9.71	−12.61	−13.42	−12.97	−11.73	−13.32	−14.64
10	78.61929	9.96666	−7.98	−8.78	−13.30	−12.60	−9.70	−12.77	−12.56	−12.86	−10.64	−12.72	−14.62
12	78.62070	9.96259	−9.29	−12.86	−13.58	−14.12	−11.17	−12.61	−10.32	−13.14	−12.03	−12.92	−14.74
13	78.65733	9.99453	−14.39	−8.44	−11.36	−11.08	−10.00	−10.18	−5.68	−12.00	−9.77	−10.34	−13.80
14	78.65994	9.99615	−12.00	−9.79	−10.87	−11.35	−9.48	−8.50	−4.60	−7.46	−9.19	−11.17	−13.90
15	78.65814	9.99663	−9.42	−9.35	−10.75	−11.74	−8.95	−10.11	−10.77	−11.00	−9.97	−11.03	−12.95
16	78.65913	9.99738	−9.62	−6.67	−11.41	−9.10	−7.98	−8.26	−8.38	−9.21	−9.30	−10.01	−12.16
18	78.67115	9.99600	−8.68	−8.17	−10.69	−9.76	−8.34	−11.54	−11.48	−10.69	−8.10	−13.40	−10.69

Table S2. Cont.

Site ID 11 (Thailand, Muang Yang)									
Field	Longitude (°)	Latitude (°)	27 May	12 June	14 July	30 July	15 August	31 August	16 September
1	102.90820	15.40197	−11.95	−13.82	−13.03	−9.50	−10.63	−10.40	−10.35
2	102.94892	15.35974	−15.09	−12.97	−14.34	−9.98	−7.15	−6.49	−5.57
3	102.94808	15.36072	−13.98	−13.29	−14.70	−10.94	−10.81	−9.53	−10.32
4	103.00520	15.40918	−13.63	−13.56	−12.81	−8.36	−8.85	−10.36	−7.51
5	102.87539	15.43132	−11.22	−7.38	−5.42	−8.38	−4.23	−5.42	−4.71
6	102.83124	15.36852	−10.48	−11.74	−9.54	−6.51	−4.33	−7.40	−7.11
7	102.82793	15.36195	−12.51	−8.43	−5.82	−7.12	−7.59	−8.74	−7.74
8	102.87563	15.36547	−10.15	−12.69	−11.11	−13.82	−13.86	−14.25	−9.05
9	103.00350	15.39216	−14.17	−14.18	−12.98	−9.60	−9.83	−10.07	−10.76
10	102.91498	15.39137	−9.33	−13.15	−9.95	−6.41	−4.94	−6.31	−5.76
11	102.88529	15.45314	−12.21	−10.06	−5.62	−6.04	−5.09	−6.55	−7.95
12	102.84176	15.43193	−9.59	−8.77	−10.40	−6.16	−6.21	−7.41	−9.71
13	102.77235	15.49322	−6.25	−10.82	−7.13	−6.88	−7.49	−9.10	−4.98
16	102.79842	15.46521	−10.44	−10.62	−11.48	−7.91	−7.92	−9.86	−9.31
17	102.82529	15.49559	−10.04	−12.15	−10.61	−7.36	−7.76	−8.46	−8.68
Site ID 12 (Thailand, Suphan Buri)									
Field	Long (°)	Lat (°)	18 June	14 July	20 July	05 August	25 August	06 September	
1	100.18429	14.41855	−10.56	−12.36	−12.12	−13.14	−11.89	−10.24	
2	100.19814	14.42050	−13.23	−11.66	−9.85	−12.97	−12.20	−10.62	
3	100.22177	14.42982	−10.27	−11.63	−14.32	−13.30	−11.42	−10.28	
4	100.24810	14.32446	−12.09	−16.63	−10.95	−11.49	−10.61	−11.98	
5	100.27321	14.31927	−18.39	−14.88	−9.48	−9.47	−13.33	−13.46	
6	100.31038	14.32347	−10.26	−12.10	−11.65	−12.55	−11.26	−10.34	
7	100.31311	14.31512	−13.25	−9.48	−8.82	−10.18	−10.90	−11.56	
8	100.20565	14.32144	−6.92	−8.93	−10.20	−12.98	−8.18	−10.33	
9	100.20263	14.67833	−8.06	−8.69	−8.10	−6.88	−8.43	−12.68	
10	100.18363	14.71614	−6.13	−10.52	−13.01	−14.15	−13.21	−17.94	

Table S2. Cont.

Site ID 12 (Thailand, Suphan Buri)												
Field	Long (°)	Lat (°)	18 June	14 July	20 July	05 August	25 August	06 September				
11	100.17495	14.70513	−9.42	−7.76	−13.65	−12.93	−12.33	−13.65				
14	100.12731	14.56469	−12.76	−13.22	−11.53	−11.11	−11.86	−12.57				
16	100.17743	14.66880	−15.88	−11.99	−12.87	−8.89	−11.16	−12.86				
18	100.19686	14.67024	−11.61	−9.91	−9.69	−9.17	−9.05	−12.00				
19	100.20382	14.68491	−15.02	−13.80	−8.49	−11.94	−11.95	−13.35				
20	100.20094	14.69461	−14.84	−13.88	−8.42	−9.75	−10.62	−13.86				
Site ID 13 (Philippines, Nueva Ecija)												
Field	Long (°)	Lat (°)	25 May	05 June	16 June	27 June	08 July	19 July	30 July	01 September	12 September	23 September
1	120.97424	15.79432	−10.52	−10.35	−10.36	−9.53	−13.95	−11.66	−7.62	−11.51	−11.22	−10.61
2	120.97209	15.79317	−9.76	−10.09	−9.50	−14.94	−12.83	−11.24	−7.50	−11.68	−11.65	−11.17
3	120.97309	15.79794	−7.44	−10.55	−8.07	−10.25	−10.96	−10.40	−10.08	−9.48	−8.88	−10.33
4	120.96614	15.79342	−10.35	−11.24	−8.84	−8.94	−14.67	−13.25	−10.92	−11.83	−10.78	−11.57
6	120.90813	15.49465	−10.42	−10.97	−7.14	−7.12	−7.81	−13.95	−14.05	−7.07	−8.28	−9.70
7	120.90960	15.49754	−11.31	−11.19	−9.41	−7.32	−15.00	−9.86	−8.01	−8.85	−8.57	−9.29
8	120.90064	15.48716	−11.26	−15.79	−11.50	−10.35	−15.25	−15.11	−12.35	−13.06	−12.29	−12.09
9	120.89864	15.48614	−9.72	−10.64	−9.96	−7.70	−10.90	−15.19	−9.64	−7.10	−7.84	−9.77
11	120.93127	15.54822	−11.27	−10.52	−9.65	−9.32	−9.19	−8.98	−8.09	−7.67	−7.69	−8.22
12	120.95236	15.57775	−11.16	−7.06	−16.52	−15.17	−8.74	−6.22	−10.89	−12.13	−8.74	−5.64
13	120.96530	15.57824	−13.14	−12.17	−17.32	−10.41	−8.15	−6.85	−7.45	−9.97	−7.41	−8.32
14	120.96830	15.58829	−11.26	−7.93	−11.37	−12.90	−10.11	−7.02	−7.74	−11.30	−9.69	−8.33
15	120.95407	15.57045	−11.90	−11.24	−8.78	−9.33	−8.34	−10.79	−11.86	−7.38	−8.28	−9.04
16	120.86314	15.58945	−5.31	−7.96	−11.26	−12.98	−9.77	−6.28	−7.72	−10.13	−10.37	−8.76
17	120.84994	15.58427	−8.83	−8.99	−9.30	−9.52	−12.77	−10.24	−7.75	−12.84	−12.49	−8.96
18	120.85658	15.59508	−5.90	−7.82	−8.49	−10.30	−9.46	−7.65	−8.69	−13.76	−10.91	−9.76
19	120.85126	15.59493	−9.33	−9.00	−14.36	−11.10	−7.56	−8.29	−6.77	−10.60	−10.05	−5.84
20	120.86566	15.59772	−8.71	−7.28	−10.91	−13.95	−10.45	−6.67	−7.28	−11.78	−10.79	−9.24

Table S3. Confusion matrices for each site based on a two class rice/non-rice classification.

Site ID 1 (Cambodia, Takeo)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	48	9	84.2%
	Non-rice	6	37	86.0%
	Reliability	88.9%	80.4%	85.0%
Kappa				0.70
Site ID 2 (Philippines, Leyte East)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	36	13	73.5%
	Non-rice	0	50	100.0%
	Reliability	100.0%	79.4%	86.9%
Kappa				0.74
Site ID 3 (Philippines, Leyte West)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	33	8	80.5%
	Non-rice	1	43	97.7%
	Reliability	97.1%	84.3%	89.4%
Kappa				0.79
Site ID 4 (Philippines, Agusan Del Norte)				
		Predicted Class from the Map		Accuracy
		Rice	Non-rice	
Actual class from survey	Rice	40	10	80.0%
	Non-rice	1	49	98.0%
	Reliability	97.6%	83.1%	89.0%
Kappa				0.78
Site ID 5 (Vietnam, Soc Trang)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	52	6	89.7%
	Non-rice	8	42	84.0%
	Reliability	86.7%	87.5%	87.0%
Kappa				0.74
Site ID 6 (Vietnam, Nam Dinh)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	44	7	86.3%
	Non-rice	4	45	91.8%
	Reliability	91.7%	86.5%	89.0%
Kappa				0.78

Table S3. Cont.

Site ID 7 (Indonesia, Subang)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	61	4	93.8%
	Non-rice	0	50	100.0%
	Reliability	100.0%	92.6%	96.5%
Kappa				0.93
Site ID 8 (India, Cuddalore)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	45	4	91.8%
	Non-rice	5	57	91.9%
	Reliability	90.0%	93.4%	91.9%
Kappa				0.84
Site ID 9 (India, Thanjavur)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	56	4	93.3%
	Non-rice	5	37	88.1%
	Reliability	91.8%	90.2%	91.2%
Kappa				0.82
Site ID 10 (India, Sivaganga)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	39	12	76.5%
	Non-rice	2	52	96.3%
	Reliability	95.1%	81.3%	86.7%
Kappa				0.73
Site ID 11 (Thailand, Muang Yang)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	58	5	92.1%
	Non-rice	10	36	78.3%
	Reliability	85.3%	87.8%	86.2%
Kappa				0.72
Site ID 12 (Thailand, Suphan Buri)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	46	8	85.2%
	Non-rice	5	41	89.1%
	Reliability	90.2%	83.7%	87.0%
Kappa				0.74

Table S3. Cont.

Site ID 13 (Philippines, Nueva Ecija)				
		Predicted Class from the Map		Accuracy
		Rice	Non-Rice	
Actual class from survey	Rice	43	7	86.0%
	Non-rice	7	43	86.0%
	Reliability	86.0%	86.0%	86.0%

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