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

Andrew Nelson 1,*, Tri Setiyono 1,*, Arnel B. Rala 1, Emma D. Quicho 1, Jeny V. Raviz 1, Prosperidad J. Abonete 1, Aileen A. Maunahan 1, Cornelia A. Garcia 1, Hannah Zarah M. Bhatti 1, Lorena S. Villano 1, Pingmanee Thongbai 1, Francesco Holecz 2, Massimo Barbieri 2, Francesco Collivignarelli 2, Luca Gatti 2, Eduardo Jimmy P. Quilang 3, Mary Rose O. Mabalay 3, Pristine E. Mabalot 3, Mabel I. Barroga 3, Alfie P. Bacong 3, Norlyn T. Detoito 3, Gloric Belle Berja 3, Francisco Varquez 3, Wahyunto 4, Dwi Kuntjoro 4, Sri Retno Murdiyati 4, Sellaperumal Pazhanivelan 5, Pandian Kannan 5, Petchimuthu Christy Nirmala Mary 5, Elangovan Subramanian 5, Preesan Rakwatin 6, Amornrat Intrman 7, Thana Setapayak 7, Sommai Lertna 7, Vo Quang Minh 8, Vo Quoc Tuan 8, Trinh Hoang Duong 9, Nguyen Huu Quyen 9, Duong Van Kham 9, Sarith Hin 10, Touch Veasna 10, Manoj Yadav 11, Chharom Chin 12 and Nguyen Hong Ninh 13

1 International Rice Research Institute (IRRI), Los Baños 4031, Philippines; E-Mails: a.rala@irri.org (A.B.R.); e.quicho@irri.org (E.D.Q.); j.raviz@irri.org (J.V.R.); p.abonete@irri.org (P.J.A.); a.maunahan@irri.org (A.A.M.); cornelia.garcia@irri.org (C.A.G.); h.bhatti@irri.org (H.Z.M.B.); l.villano@irri.org (L.S.V.); p.thongbai@irri.org (P.T.)
2 Sarmap, Purasca 6989, Switzerland; E-Mails: fholecz@sarmap.ch (F.H.); mbarbieri@sarmap.ch (M.B.); fcolli@sarmap.ch (F.C.); lgatti@sarmap.ch (L.G.)
3 Philippine Rice Research Institute (PhilRice), Muñoz 3119, Philippines; E-Mails: ejp.quilang@philrice.gov.ph (E.J.P.Q.); mro.mabalay@philrice.gov.ph (M.R.O.M.); pe.mabalot@philrice.gov.ph (P.E.M.); mi.barroga@philrice.gov.ph (M.I.B.); alfiebacong@yahoo.com.ph (A.P.B.); norlyndetoito@gmail.com (N.T.D.); bgloriebelle@gmail.com (G.B.B.); flvarquez@yahoo.com (F.V.)
4 Indonesian Center for Agricultural Land Resources Research and Development (ICALRD), Bogor 16123, Indonesia; E-Mails: wahyunto_wt@yahoo.co.id (W.); dwi_bgr@yahoo.com (D.K.); menik__bogor@yahoo.com (S.R.M.)
5 Directorate of Crop Management, Tamil Nadu Agricultural University (TNAU), Coimbatore 641003, India; E-Mails: pazhanivelans@gmail.com (S.P.); pandian.kannan@gmail.com (P.K.); chrismary@rediffmail.com (P.C.N.M.); selvisubbug@yahoo.co.in (E.S.)
6 Geo–Informatics and Space Technology Development Agency (GISTDA), Bangkok 10210, Thailand; E-Mail: preesan@gistda.or.th
**Table S1.** SAR acquisition tables for the 13 sites.

<table>
<thead>
<tr>
<th>Site ID 1 (Cambodia, Takeo)</th>
<th>Satellite and band</th>
<th>Swath (km)</th>
<th>Incidence angle (°)</th>
<th>Polarization</th>
<th>Mode</th>
<th>Ground resolution (m)</th>
<th>Orbit cycle (days)</th>
<th>Orbit direction</th>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSK1, X</td>
<td>40 × 40</td>
<td>40</td>
<td>HH</td>
<td>Stripmap</td>
<td>3</td>
<td>16</td>
<td>Ascending</td>
<td></td>
<td>Planned</td>
<td>12 October 2012</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Back up</td>
<td>28 October 2012</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13 November 2012</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29 November 2012</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15 December 2012</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>31 December 2012</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16 January 2013</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 February 2013</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17 February 2013</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 March 2013</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>21 March 2013</td>
<td>11:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6 April 2013</td>
<td>11:00 PM</td>
</tr>
<tr>
<td>Site ID 2 (Philippines, Leyte East)</td>
<td>Satellite and band</td>
<td>CSK4, X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-------------------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>46</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Descending</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>15 May 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td>Back up (CSK1)</td>
<td>31 May 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>16 June 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>2 July 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>18 July 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>7 Augst 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>15 August 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>19 August 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>4 September 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>20 September 2013</td>
<td>9:16 AM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 3 (Philippines, Leyte West)</th>
<th>Satellite and band</th>
<th>CSK3, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
<td></td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
<td></td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
<td></td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Descending</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>12 May 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td>Back up (CSK4/CSK1)</td>
<td>28 May 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>13 June 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>29 June 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>15 July 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>3 August 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>23 August 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>8 September 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>24 September 2013</td>
<td>9:16 AM</td>
</tr>
</tbody>
</table>
### Table S1. Cont.

#### Site ID 4 (Philippines, Agusan del Norte)

<table>
<thead>
<tr>
<th>Satellite and band</th>
<th>CSK2, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>39</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Descending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>27 May 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td>Back up (CSK3/CSK4)</td>
<td>12 June 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>28 June 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>15 July 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>30 July 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>15 August 2013</td>
<td>9:17 AM</td>
</tr>
<tr>
<td></td>
<td>31 August 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>16 September 2013</td>
<td>9:16 AM</td>
</tr>
<tr>
<td></td>
<td>6 October 2013</td>
<td>9:16 AM</td>
</tr>
</tbody>
</table>

#### Site ID 5 (Vietnam, Soc Trang)

<table>
<thead>
<tr>
<th>Satellite and band</th>
<th>CSK4, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>46</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Ascending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>5 June 2013</td>
<td>11:02 PM</td>
</tr>
<tr>
<td>Back up</td>
<td>21 June 2013</td>
<td>11:02 PM</td>
</tr>
<tr>
<td></td>
<td>7 July 2013</td>
<td>11:02 PM</td>
</tr>
<tr>
<td></td>
<td>23 July 2013</td>
<td>11:02 PM</td>
</tr>
<tr>
<td></td>
<td>8 August 2013</td>
<td>11:01 PM</td>
</tr>
<tr>
<td></td>
<td>24 August 2013</td>
<td>11:01 PM</td>
</tr>
<tr>
<td></td>
<td>9 September 2013</td>
<td>11:01 PM</td>
</tr>
<tr>
<td></td>
<td>25 September 2013</td>
<td>11:01 PM</td>
</tr>
</tbody>
</table>
### Table S1. Cont.

**Site ID 6 (Vietnam, Nam Dinh)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satellite and band</td>
<td>CSK2, X</td>
</tr>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>40</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Ascending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>26 May 2014</td>
<td>10:53 PM</td>
</tr>
<tr>
<td>Back up (CSK4/CSK1/CSK3)</td>
<td>15 June 2013</td>
<td>10:53 PM</td>
</tr>
<tr>
<td></td>
<td>19 June 2013</td>
<td>10:53 PM</td>
</tr>
<tr>
<td></td>
<td>27 June 2013</td>
<td>10:53 PM</td>
</tr>
<tr>
<td></td>
<td>13 July 2013</td>
<td>10:52 PM</td>
</tr>
<tr>
<td></td>
<td>29 July 2013</td>
<td>10:52 PM</td>
</tr>
<tr>
<td></td>
<td>14 August 2013</td>
<td>10:52 PM</td>
</tr>
<tr>
<td></td>
<td>30 August 2013</td>
<td>10:52 PM</td>
</tr>
<tr>
<td></td>
<td>15 September 2013</td>
<td>10:52 PM</td>
</tr>
<tr>
<td></td>
<td>2 October 2013</td>
<td>10:52 PM</td>
</tr>
<tr>
<td></td>
<td>17 October 2013</td>
<td>10:52 PM</td>
</tr>
</tbody>
</table>

**Site ID 7 (Indonesia, Subang)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satellite and band</td>
<td>CSK4, X</td>
</tr>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>46</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Descending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>26 November 2013</td>
<td>10:15 AM</td>
</tr>
<tr>
<td>Back up (CSK1)</td>
<td>12 December 2013</td>
<td>10:15 AM</td>
</tr>
<tr>
<td></td>
<td>28 December 2013</td>
<td>10:15 AM</td>
</tr>
<tr>
<td></td>
<td>13 January 2014</td>
<td>10:15 AM</td>
</tr>
<tr>
<td></td>
<td>29 January 2014</td>
<td>10:14 AM</td>
</tr>
<tr>
<td></td>
<td>14 February 2014</td>
<td>10:14 AM</td>
</tr>
<tr>
<td></td>
<td>6 March 2014</td>
<td>10:14 AM</td>
</tr>
<tr>
<td></td>
<td>22 March 2014</td>
<td>10:14 AM</td>
</tr>
<tr>
<td></td>
<td>23 April 2014</td>
<td>10:14 AM</td>
</tr>
</tbody>
</table>
Table S1. Cont.

### Site ID 8 (India, Cuddalore)

<table>
<thead>
<tr>
<th>Satellite and band</th>
<th>CSK2, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>44</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Ascending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>24 August 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td>Back up (CSK1)</td>
<td>1 September 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>17 September 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>3 October 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>19 October 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>4 November 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>20 November 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>6 December 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>22 December 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>7 January 2014</td>
<td>12:44 AM</td>
</tr>
</tbody>
</table>

### Site ID 9 (India, Thanjavur)

<table>
<thead>
<tr>
<th>Satellite and band</th>
<th>CSK2, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>41</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Ascending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition information</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned</td>
<td>16 August 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td>Back up (CSK4)</td>
<td>1 September 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>17 September 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>3 October 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>19 October 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>4 November 2013</td>
<td>12:45 AM</td>
</tr>
<tr>
<td></td>
<td>24 November 2013</td>
<td>12:44 AM</td>
</tr>
<tr>
<td></td>
<td>10 December 2013</td>
<td>12:44 AM</td>
</tr>
<tr>
<td></td>
<td>26 December 2013</td>
<td>12:44 AM</td>
</tr>
</tbody>
</table>
Table S1. Cont.

<table>
<thead>
<tr>
<th>Site ID 10 (India, Sivaganga)</th>
<th>Satellite and band</th>
<th>TSX, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>30 × 50</td>
<td></td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
<td></td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
<td></td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Descending</td>
<td></td>
</tr>
</tbody>
</table>

Acquisition information

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned 18 August 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>29 August 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>20 September 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>1 October 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>12 October 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>23 October 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>3 November 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>14 November 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>25 November 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>6 December 2013</td>
<td>12:35 AM</td>
</tr>
<tr>
<td>17 December 2013</td>
<td>12:35 AM</td>
</tr>
</tbody>
</table>

Site ID 11 (Thailand, Muang Yang)

<table>
<thead>
<tr>
<th>Satellite and band</th>
<th>CSK2, X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swath (km)</td>
<td>40 × 40</td>
</tr>
<tr>
<td>Incidence angle (°)</td>
<td>43</td>
</tr>
<tr>
<td>Mode</td>
<td>Stripmap</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH</td>
</tr>
<tr>
<td>Ground resolution (m)</td>
<td>3</td>
</tr>
<tr>
<td>Orbit cycle (days)</td>
<td>16</td>
</tr>
<tr>
<td>Orbit direction</td>
<td>Ascending</td>
</tr>
</tbody>
</table>

Acquisition information

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned 27 May 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>12 June 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>14 July 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>30 July 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>15 August 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>31 August 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>16 September 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>2 October 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>18 October 2013</td>
<td>11:06 PM</td>
</tr>
<tr>
<td>3 November 2013</td>
<td>11:06 PM</td>
</tr>
</tbody>
</table>
Table S1. Cont.

<table>
<thead>
<tr>
<th>Site ID 12 (Thailand, Suphan Buri)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Satellite and band</strong></td>
<td>CSK2, X</td>
</tr>
<tr>
<td><strong>Swath (km)</strong></td>
<td>$140 \times 100$</td>
</tr>
<tr>
<td><strong>Incidence angle (°)</strong></td>
<td>45</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>HH</td>
</tr>
<tr>
<td><strong>Mode</strong></td>
<td>ScanSAR</td>
</tr>
<tr>
<td><strong>Ground resolution (m)</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Orbit cycle (days)</strong></td>
<td>16</td>
</tr>
<tr>
<td><strong>Orbit direction</strong></td>
<td>Ascending</td>
</tr>
<tr>
<td><strong>Acquisition information</strong></td>
<td><strong>Date</strong></td>
</tr>
<tr>
<td>Planned</td>
<td>18 June 2013</td>
</tr>
<tr>
<td>Back up (CSK4)</td>
<td>4 July 2013</td>
</tr>
<tr>
<td></td>
<td>20 July 2013</td>
</tr>
<tr>
<td></td>
<td>5 August 2013</td>
</tr>
<tr>
<td></td>
<td>25 August 2014</td>
</tr>
<tr>
<td></td>
<td>6 September 2013</td>
</tr>
<tr>
<td></td>
<td>12 October 2013</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 13 (Philippines, Nueva Ecija)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Satellite and band</strong></td>
<td>TSX, X</td>
</tr>
<tr>
<td><strong>Swath (km)</strong></td>
<td>$100 \times 150$</td>
</tr>
<tr>
<td><strong>Incidence angle (°)</strong></td>
<td>45</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>HH</td>
</tr>
<tr>
<td><strong>Mode</strong></td>
<td>ScanSAR</td>
</tr>
<tr>
<td><strong>Ground resolution (m)</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Orbit cycle (days)</strong></td>
<td>11</td>
</tr>
<tr>
<td><strong>Orbit direction</strong></td>
<td>Ascending</td>
</tr>
<tr>
<td><strong>Acquisition information</strong></td>
<td><strong>Date</strong></td>
</tr>
<tr>
<td>Planned</td>
<td>2 May 2013</td>
</tr>
<tr>
<td></td>
<td>5 June 2013</td>
</tr>
<tr>
<td></td>
<td>16 June 2013</td>
</tr>
<tr>
<td></td>
<td>27 June 2013</td>
</tr>
<tr>
<td></td>
<td>8 July 2013</td>
</tr>
<tr>
<td></td>
<td>19 July 2013</td>
</tr>
<tr>
<td></td>
<td>30 July 2013</td>
</tr>
<tr>
<td></td>
<td>1 September 2013</td>
</tr>
<tr>
<td></td>
<td>12 September 2013</td>
</tr>
<tr>
<td></td>
<td>23 September 2013</td>
</tr>
</tbody>
</table>
Table S2. Temporal signatures for monitored fields in the 13 sites. All values in dB.

### Site 1 (Cambodia, Takeo)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>13 November</th>
<th>29 November</th>
<th>15 December</th>
<th>31 December</th>
<th>16 January</th>
<th>1 February</th>
<th>17 February</th>
<th>5 March</th>
<th>21 March</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>104.93849</td>
<td>11.03815</td>
<td>−19.50</td>
<td>−14.05</td>
<td>−7.20</td>
<td>−8.20</td>
<td>−12.17</td>
<td>−11.56</td>
<td>−11.24</td>
<td>−13.36</td>
<td>−15.42</td>
</tr>
<tr>
<td>3</td>
<td>104.93456</td>
<td>11.01792</td>
<td>−14.41</td>
<td>−10.45</td>
<td>−5.98</td>
<td>−9.05</td>
<td>−11.03</td>
<td>−11.74</td>
<td>−13.36</td>
<td>−13.90</td>
<td>−14.63</td>
</tr>
<tr>
<td>4</td>
<td>104.95742</td>
<td>11.12065</td>
<td>−12.95</td>
<td>−12.99</td>
<td>−9.80</td>
<td>−7.31</td>
<td>−9.15</td>
<td>−10.51</td>
<td>−11.03</td>
<td>−11.07</td>
<td>−14.83</td>
</tr>
</tbody>
</table>

### Site 2 (Philippines, Leyte East)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>15 May</th>
<th>31 May</th>
<th>16 June</th>
<th>2 July</th>
<th>18 July</th>
<th>7 August</th>
<th>15 August</th>
<th>19 August</th>
<th>4 September</th>
<th>20 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>125.02524</td>
<td>10.97517</td>
<td>−9.13</td>
<td>−10.16</td>
<td>−9.22</td>
<td>−9.35</td>
<td>−10.86</td>
<td>−11.87</td>
<td>−11.00</td>
<td>−9.52</td>
<td>−8.61</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>125.00107</td>
<td>11.03947</td>
<td>−11.53</td>
<td>−7.96</td>
<td>−7.60</td>
<td>−13.66</td>
<td>−9.00</td>
<td>−7.21</td>
<td>−8.59</td>
<td>−8.38</td>
<td>−9.56</td>
<td>−12.64</td>
</tr>
<tr>
<td>12</td>
<td>124.95348</td>
<td>11.13708</td>
<td>−10.22</td>
<td>−9.78</td>
<td>−10.03</td>
<td>−8.48</td>
<td>−8.98</td>
<td>−8.98</td>
<td>−13.82</td>
<td>−13.61</td>
<td>−6.64</td>
<td>−8.57</td>
</tr>
<tr>
<td>13</td>
<td>124.95535</td>
<td>11.14104</td>
<td>−9.63</td>
<td>−9.41</td>
<td>−9.00</td>
<td>−7.03</td>
<td>−8.20</td>
<td>−12.41</td>
<td>−11.85</td>
<td>−11.06</td>
<td>−6.50</td>
<td>−6.75</td>
</tr>
</tbody>
</table>
### Table S2. Cont.

#### Site ID 3 (Philippines, Leyte West)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>12 May</th>
<th>28 May</th>
<th>13 June</th>
<th>29 June</th>
<th>15 July</th>
<th>3 August</th>
<th>23 August</th>
<th>8 September</th>
<th>24 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>124.55630</td>
<td>11.03628</td>
<td>−9.23</td>
<td>−8.43</td>
<td>−4.93</td>
<td>−15.73</td>
<td>−12.60</td>
<td>−5.73</td>
<td>−8.45</td>
<td>−8.79</td>
<td>−11.90</td>
</tr>
<tr>
<td>2</td>
<td>124.55669</td>
<td>11.03724</td>
<td>−11.61</td>
<td>−10.27</td>
<td>−8.40</td>
<td>−16.22</td>
<td>−12.69</td>
<td>−7.56</td>
<td>−11.09</td>
<td>−11.74</td>
<td>−12.95</td>
</tr>
<tr>
<td>6</td>
<td>124.55462</td>
<td>11.05616</td>
<td>−8.65</td>
<td>−9.80</td>
<td>−7.89</td>
<td>−14.75</td>
<td>−12.53</td>
<td>−7.08</td>
<td>−10.83</td>
<td>−11.01</td>
<td>−11.49</td>
</tr>
<tr>
<td>7</td>
<td>124.55813</td>
<td>11.06157</td>
<td>−7.96</td>
<td>−7.74</td>
<td>−5.45</td>
<td>−15.92</td>
<td>−10.25</td>
<td>−6.89</td>
<td>−11.11</td>
<td>−10.81</td>
<td>−11.20</td>
</tr>
<tr>
<td>8</td>
<td>124.55442</td>
<td>11.06826</td>
<td>−8.15</td>
<td>−8.93</td>
<td>−12.80</td>
<td>−11.81</td>
<td>−9.47</td>
<td>−10.68</td>
<td>−12.10</td>
<td>−11.42</td>
<td>−10.44</td>
</tr>
<tr>
<td>10</td>
<td>124.55241</td>
<td>11.07423</td>
<td>−7.42</td>
<td>−9.49</td>
<td>−15.33</td>
<td>−15.61</td>
<td>−7.69</td>
<td>−9.57</td>
<td>−11.93</td>
<td>−11.87</td>
<td>−8.43</td>
</tr>
<tr>
<td>11</td>
<td>124.47792</td>
<td>11.15220</td>
<td>−8.83</td>
<td>−9.26</td>
<td>−15.63</td>
<td>−17.81</td>
<td>−9.43</td>
<td>−7.69</td>
<td>−10.73</td>
<td>−10.95</td>
<td>−12.25</td>
</tr>
<tr>
<td>14</td>
<td>124.47897</td>
<td>11.15364</td>
<td>−7.34</td>
<td>−7.63</td>
<td>−14.17</td>
<td>−17.08</td>
<td>−11.32</td>
<td>−7.43</td>
<td>−9.74</td>
<td>−10.10</td>
<td>−11.92</td>
</tr>
<tr>
<td>15</td>
<td>124.47926</td>
<td>11.15401</td>
<td>−6.95</td>
<td>−7.98</td>
<td>−15.24</td>
<td>−17.32</td>
<td>−14.41</td>
<td>−12.36</td>
<td>−8.91</td>
<td>−9.40</td>
<td>−12.02</td>
</tr>
<tr>
<td>17</td>
<td>124.53953</td>
<td>11.17253</td>
<td>−8.11</td>
<td>−16.07</td>
<td>−15.87</td>
<td>−9.05</td>
<td>−7.90</td>
<td>−10.94</td>
<td>−12.28</td>
<td>−11.46</td>
<td>−11.14</td>
</tr>
<tr>
<td>18</td>
<td>124.53891</td>
<td>11.17343</td>
<td>−7.96</td>
<td>−15.85</td>
<td>−12.11</td>
<td>−5.68</td>
<td>−9.43</td>
<td>−11.00</td>
<td>−10.38</td>
<td>−4.37</td>
<td>−9.05</td>
</tr>
<tr>
<td>20</td>
<td>124.53802</td>
<td>11.17411</td>
<td>−9.08</td>
<td>−15.50</td>
<td>−14.53</td>
<td>−12.15</td>
<td>−8.26</td>
<td>−8.89</td>
<td>−11.58</td>
<td>−11.74</td>
<td>−12.28</td>
</tr>
</tbody>
</table>

#### Site ID 4 (Philippines, Agusan del Norte)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>27 May</th>
<th>12 June</th>
<th>28 June</th>
<th>15 July</th>
<th>30 July</th>
<th>15 August</th>
<th>31 August</th>
<th>16 September</th>
<th>6 October</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>125.59744</td>
<td>9.01679</td>
<td>−6.64</td>
<td>−5.89</td>
<td>−13.02</td>
<td>−7.64</td>
<td>−14.26</td>
<td>−8.15</td>
<td>−5.97</td>
<td>−7.19</td>
<td>−9.06</td>
</tr>
<tr>
<td>2</td>
<td>125.56070</td>
<td>8.90459</td>
<td>−9.22</td>
<td>−9.51</td>
<td>−15.41</td>
<td>−13.33</td>
<td>−10.23</td>
<td>−7.58</td>
<td>−5.38</td>
<td>−6.67</td>
<td>−7.72</td>
</tr>
<tr>
<td>3</td>
<td>125.50389</td>
<td>8.92480</td>
<td>−11.24</td>
<td>−12.28</td>
<td>−12.61</td>
<td>−8.73</td>
<td>−7.28</td>
<td>−6.98</td>
<td>−7.45</td>
<td>−10.64</td>
<td>−10.65</td>
</tr>
<tr>
<td>5</td>
<td>125.58364</td>
<td>8.94487</td>
<td>−7.69</td>
<td>−8.25</td>
<td>−8.38</td>
<td>−11.62</td>
<td>−12.80</td>
<td>−10.32</td>
<td>−8.73</td>
<td>−8.53</td>
<td>−9.11</td>
</tr>
</tbody>
</table>
Table S2. Cont.

**Site ID 4 (Philippines, Agusan del Norte)**

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>27 May</th>
<th>12 June</th>
<th>28 June</th>
<th>15 July</th>
<th>30 July</th>
<th>15 August</th>
<th>31 August</th>
<th>16 September</th>
<th>6 October</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>125.58078</td>
<td>8.97020</td>
<td>−15.59</td>
<td>−9.51</td>
<td>−13.18</td>
<td>−8.13</td>
<td>−6.65</td>
<td>−4.96</td>
<td>−10.12</td>
<td>−10.50</td>
<td>−8.93</td>
</tr>
<tr>
<td>10</td>
<td>125.59012</td>
<td>9.04844</td>
<td>−9.53</td>
<td>−10.00</td>
<td>−14.80</td>
<td>−9.56</td>
<td>−15.44</td>
<td>−11.34</td>
<td>−8.23</td>
<td>−8.17</td>
<td>−8.91</td>
</tr>
<tr>
<td>11</td>
<td>125.57941</td>
<td>9.07067</td>
<td>−9.01</td>
<td>−8.29</td>
<td>−17.44</td>
<td>−14.47</td>
<td>−14.07</td>
<td>−6.69</td>
<td>−4.96</td>
<td>−5.16</td>
<td>−8.44</td>
</tr>
<tr>
<td>12</td>
<td>125.58771</td>
<td>9.06647</td>
<td>−11.22</td>
<td>−10.40</td>
<td>−10.04</td>
<td>−8.84</td>
<td>−14.39</td>
<td>−8.21</td>
<td>−7.79</td>
<td>−8.27</td>
<td>−8.61</td>
</tr>
<tr>
<td>14</td>
<td>125.55492</td>
<td>9.09828</td>
<td>−8.51</td>
<td>−9.34</td>
<td>−11.96</td>
<td>−11.29</td>
<td>−15.06</td>
<td>−9.83</td>
<td>−9.29</td>
<td>−7.43</td>
<td>−8.49</td>
</tr>
<tr>
<td>15</td>
<td>125.56358</td>
<td>9.07770</td>
<td>−8.50</td>
<td>−9.30</td>
<td>−11.35</td>
<td>−15.98</td>
<td>−12.38</td>
<td>−7.82</td>
<td>−8.77</td>
<td>−7.43</td>
<td>−10.39</td>
</tr>
<tr>
<td>17</td>
<td>125.54155</td>
<td>9.09396</td>
<td>−10.18</td>
<td>−11.15</td>
<td>−7.43</td>
<td>−11.23</td>
<td>−14.50</td>
<td>−9.34</td>
<td>−9.47</td>
<td>−8.70</td>
<td>−8.51</td>
</tr>
<tr>
<td>20</td>
<td>125.72680</td>
<td>8.73739</td>
<td>−8.98</td>
<td>−7.48</td>
<td>−7.54</td>
<td>−9.05</td>
<td>−11.40</td>
<td>−7.15</td>
<td>−9.04</td>
<td>−11.13</td>
<td></td>
</tr>
</tbody>
</table>

**Site ID 5 (Vietnam, Soc Trang)**

<table>
<thead>
<tr>
<th>Field</th>
<th>Long</th>
<th>Lat</th>
<th>5 June</th>
<th>21 June</th>
<th>7 July</th>
<th>23 July</th>
<th>8 August</th>
<th>24 August</th>
<th>9 September</th>
<th>25 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>105.918774</td>
<td>9.543082</td>
<td>−15.08</td>
<td>−15.91</td>
<td>−7.76</td>
<td>−8.98</td>
<td>−10.88</td>
<td>−12.96</td>
<td>−13.27</td>
<td>−8.14</td>
</tr>
<tr>
<td>7</td>
<td>106.007016</td>
<td>9.668021</td>
<td>−8.33</td>
<td>−6.15</td>
<td>−8.10</td>
<td>−9.41</td>
<td>−10.04</td>
<td>−9.26</td>
<td>−12.01</td>
<td>−9.73</td>
</tr>
<tr>
<td>8</td>
<td>106.141411</td>
<td>9.606122</td>
<td>−8.04</td>
<td>−16.70</td>
<td>−7.80</td>
<td>−11.09</td>
<td>−12.95</td>
<td>−13.80</td>
<td>−12.30</td>
<td>−12.25</td>
</tr>
<tr>
<td>11</td>
<td>105.952962</td>
<td>9.668283</td>
<td>−12.24</td>
<td>−12.73</td>
<td>−8.27</td>
<td>−8.94</td>
<td>−12.25</td>
<td>−12.58</td>
<td>−12.08</td>
<td>−9.05</td>
</tr>
</tbody>
</table>
Table S2. Cont.

Site ID 6 (Vietnam, Nam Dinh)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>26 May</th>
<th>15 June</th>
<th>19 June</th>
<th>27 June</th>
<th>13 July</th>
<th>29 July</th>
<th>14 August</th>
<th>30 August</th>
<th>15 September</th>
<th>1 October</th>
<th>17 October</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>106.01465</td>
<td>20.30704</td>
<td>-11.62</td>
<td>-7.89</td>
<td>-17.12</td>
<td>-17.65</td>
<td>-16.01</td>
<td>-8.00</td>
<td>-9.70</td>
<td>-10.93</td>
<td>-10.72</td>
<td>-10.72</td>
<td>-7.08</td>
</tr>
<tr>
<td>18</td>
<td>106.01772</td>
<td>20.30390</td>
<td>-11.23</td>
<td>-10.84</td>
<td>-7.95</td>
<td>-17.80</td>
<td>-15.73</td>
<td>-6.78</td>
<td>-7.20</td>
<td>-11.52</td>
<td>-10.47</td>
<td>-10.46</td>
<td>-10.52</td>
</tr>
<tr>
<td>Field</td>
<td>Long (°)</td>
<td>Lat (°)</td>
<td>26 November</td>
<td>12 December</td>
<td>28 December</td>
<td>13 January</td>
<td>29 January</td>
<td>14 February</td>
<td>6 March</td>
<td>22 March</td>
<td>23 April</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>---------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>------------</td>
<td>------------</td>
<td>-------------</td>
<td>---------</td>
<td>----------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>107.66998</td>
<td>−6.28751</td>
<td>−9.31</td>
<td>−17.20</td>
<td>−17.97</td>
<td>−12.10</td>
<td>−8.24</td>
<td>−8.75</td>
<td>−11.92</td>
<td>−11.13</td>
<td>−15.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>107.67597</td>
<td>−6.29921</td>
<td>−15.09</td>
<td>−18.03</td>
<td>−15.39</td>
<td>−9.75</td>
<td>−9.18</td>
<td>−12.00</td>
<td>−11.79</td>
<td>−11.63</td>
<td>−15.59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>107.68416</td>
<td>−6.30916</td>
<td>−19.84</td>
<td>−15.63</td>
<td>−13.04</td>
<td>−9.35</td>
<td>−10.91</td>
<td>−13.40</td>
<td>−11.86</td>
<td>−11.05</td>
<td>−15.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>107.72130</td>
<td>−6.31160</td>
<td>−12.01</td>
<td>−19.35</td>
<td>−19.85</td>
<td>−9.96</td>
<td>−9.95</td>
<td>−12.00</td>
<td>−12.28</td>
<td>−10.70</td>
<td>−16.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>107.72311</td>
<td>−6.31428</td>
<td>−10.16</td>
<td>−14.54</td>
<td>−14.55</td>
<td>−9.32</td>
<td>−10.33</td>
<td>−10.85</td>
<td>−10.01</td>
<td>−15.57</td>
<td>−15.58</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>107.72461</td>
<td>−6.31793</td>
<td>−11.87</td>
<td>−15.19</td>
<td>−16.55</td>
<td>−10.18</td>
<td>−8.72</td>
<td>−11.34</td>
<td>−11.98</td>
<td>−10.67</td>
<td>−15.31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>107.73427</td>
<td>−6.33296</td>
<td>−15.56</td>
<td>−19.54</td>
<td>−19.47</td>
<td>−10.95</td>
<td>−10.03</td>
<td>−13.33</td>
<td>−12.33</td>
<td>−11.57</td>
<td>−15.31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>107.79853</td>
<td>−6.27350</td>
<td>−10.63</td>
<td>−10.84</td>
<td>−14.70</td>
<td>−20.05</td>
<td>−19.72</td>
<td>−15.98</td>
<td>−16.15</td>
<td>−12.89</td>
<td>−16.89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>107.80378</td>
<td>−6.27393</td>
<td>−9.72</td>
<td>−9.66</td>
<td>−13.05</td>
<td>−18.51</td>
<td>−18.69</td>
<td>−16.29</td>
<td>−17.71</td>
<td>−15.85</td>
<td>−17.89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>107.80596</td>
<td>−6.27577</td>
<td>−9.31</td>
<td>−10.06</td>
<td>−12.02</td>
<td>−17.04</td>
<td>−19.51</td>
<td>−14.31</td>
<td>−15.91</td>
<td>−15.19</td>
<td>−16.71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>107.80962</td>
<td>−6.27612</td>
<td>−8.09</td>
<td>−10.01</td>
<td>−15.34</td>
<td>−19.14</td>
<td>−20.12</td>
<td>−17.15</td>
<td>−17.80</td>
<td>−15.93</td>
<td>−17.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>107.76506</td>
<td>−6.29768</td>
<td>−17.47</td>
<td>−17.27</td>
<td>−20.50</td>
<td>−18.30</td>
<td>−13.99</td>
<td>−11.10</td>
<td>−14.04</td>
<td>−15.05</td>
<td>−20.72</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>107.75865</td>
<td>−6.29961</td>
<td>−7.84</td>
<td>−14.57</td>
<td>−18.46</td>
<td>−14.18</td>
<td>−8.33</td>
<td>−8.35</td>
<td>−10.84</td>
<td>−12.92</td>
<td>−19.49</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field</td>
<td>Long (°)</td>
<td>Lat (°)</td>
<td>24 August</td>
<td>1 September</td>
<td>17 September</td>
<td>3 October</td>
<td>19 October</td>
<td>4 November</td>
<td>20 November</td>
<td>6 December</td>
<td>22 December</td>
<td>7 January</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>----------</td>
<td>-----------</td>
<td>-------------</td>
<td>--------------</td>
<td>-----------</td>
<td>------------</td>
<td>------------</td>
<td>-------------</td>
<td>------------</td>
<td>-------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>79.701554</td>
<td>11.78356</td>
<td>-12.35</td>
<td>-12.77</td>
<td>-12.77</td>
<td>-8.08</td>
<td>-7.29</td>
<td>-10.42</td>
<td>-12.15</td>
<td>-11.39</td>
<td>-11.94</td>
<td>-10.58</td>
<td></td>
</tr>
</tbody>
</table>
### Table S2. Cont.

**Site ID 9 (India, Thanjavur)**

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>16 August</th>
<th>1 September</th>
<th>17 September</th>
<th>3 October</th>
<th>19 October</th>
<th>4 November</th>
<th>24 November</th>
<th>10 December</th>
<th>26 December</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>79.39058</td>
<td>10.87269</td>
<td>−10.30</td>
<td>−11.01</td>
<td>−11.63</td>
<td>−13.61</td>
<td>−15.46</td>
<td>−10.54</td>
<td>−6.18</td>
<td>−8.74</td>
<td>−9.54</td>
</tr>
<tr>
<td>9</td>
<td>79.40441</td>
<td>10.79119</td>
<td>−10.16</td>
<td>−10.89</td>
<td>−9.98</td>
<td>−14.34</td>
<td>−11.61</td>
<td>−6.96</td>
<td>−6.50</td>
<td>−8.28</td>
<td>−10.43</td>
</tr>
</tbody>
</table>

**Site ID 10 (India, Sivaganga)**

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>8 August</th>
<th>29 August</th>
<th>20 September</th>
<th>1 October</th>
<th>12 October</th>
<th>23 October</th>
<th>3 November</th>
<th>14 November</th>
<th>25 November</th>
<th>17 December</th>
<th>19 January</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>78.63404</td>
<td>9.99781</td>
<td>−8.04</td>
<td>−7.78</td>
<td>−9.65</td>
<td>−9.49</td>
<td>−8.02</td>
<td>−9.21</td>
<td>−13.05</td>
<td>−10.05</td>
<td>−8.93</td>
<td>−8.82</td>
<td>−10.83</td>
</tr>
<tr>
<td>2</td>
<td>78.63087</td>
<td>10.00260</td>
<td>−12.08</td>
<td>−9.90</td>
<td>−11.01</td>
<td>−10.80</td>
<td>−8.51</td>
<td>−9.63</td>
<td>−10.05</td>
<td>−10.51</td>
<td>−9.96</td>
<td>−10.71</td>
<td>−12.72</td>
</tr>
<tr>
<td>3</td>
<td>78.63243</td>
<td>10.00686</td>
<td>−10.18</td>
<td>−8.54</td>
<td>−10.01</td>
<td>−10.96</td>
<td>−9.00</td>
<td>−9.59</td>
<td>−10.96</td>
<td>−10.30</td>
<td>−9.95</td>
<td>−11.16</td>
<td>−12.63</td>
</tr>
<tr>
<td>4</td>
<td>78.63343</td>
<td>10.00785</td>
<td>−8.66</td>
<td>−7.02</td>
<td>−9.61</td>
<td>−9.76</td>
<td>−8.23</td>
<td>−8.78</td>
<td>−11.20</td>
<td>−10.11</td>
<td>−7.34</td>
<td>−10.12</td>
<td>−11.65</td>
</tr>
<tr>
<td>5</td>
<td>78.63455</td>
<td>10.00656</td>
<td>−9.27</td>
<td>−9.19</td>
<td>−11.16</td>
<td>−11.88</td>
<td>−10.35</td>
<td>−11.34</td>
<td>−11.59</td>
<td>−11.79</td>
<td>−10.81</td>
<td>−12.49</td>
<td>−13.05</td>
</tr>
<tr>
<td>7</td>
<td>78.62185</td>
<td>9.97608</td>
<td>−10.51</td>
<td>−8.57</td>
<td>−11.07</td>
<td>−12.40</td>
<td>−8.84</td>
<td>−11.53</td>
<td>−11.22</td>
<td>−10.75</td>
<td>−8.79</td>
<td>−11.09</td>
<td>−12.94</td>
</tr>
<tr>
<td>8</td>
<td>78.62146</td>
<td>9.97460</td>
<td>−7.91</td>
<td>−5.68</td>
<td>−10.98</td>
<td>−12.12</td>
<td>−7.67</td>
<td>−11.08</td>
<td>−11.84</td>
<td>−11.55</td>
<td>−10.12</td>
<td>−11.99</td>
<td>−12.34</td>
</tr>
<tr>
<td>10</td>
<td>78.61929</td>
<td>9.96666</td>
<td>−7.98</td>
<td>−8.78</td>
<td>−13.30</td>
<td>−12.60</td>
<td>−9.70</td>
<td>−12.77</td>
<td>−12.56</td>
<td>−12.86</td>
<td>−10.64</td>
<td>−12.72</td>
<td>−14.62</td>
</tr>
<tr>
<td>13</td>
<td>78.65733</td>
<td>9.99453</td>
<td>−14.39</td>
<td>−8.44</td>
<td>−11.36</td>
<td>−11.08</td>
<td>−10.00</td>
<td>−10.18</td>
<td>−5.68</td>
<td>−12.00</td>
<td>−9.77</td>
<td>−10.34</td>
<td>−13.80</td>
</tr>
<tr>
<td>15</td>
<td>78.65814</td>
<td>9.99663</td>
<td>−9.42</td>
<td>−9.35</td>
<td>−10.75</td>
<td>−11.74</td>
<td>−8.95</td>
<td>−10.11</td>
<td>−10.77</td>
<td>−11.00</td>
<td>−9.97</td>
<td>−11.03</td>
<td>−12.95</td>
</tr>
<tr>
<td>18</td>
<td>78.67115</td>
<td>9.99600</td>
<td>−8.68</td>
<td>−8.17</td>
<td>−10.69</td>
<td>−9.76</td>
<td>−8.34</td>
<td>−11.54</td>
<td>−11.48</td>
<td>−10.69</td>
<td>−8.10</td>
<td>−13.40</td>
<td>−10.69</td>
</tr>
</tbody>
</table>
### Table S2. Cont.

**Site ID 11 (Thailand, Muang Yang)**

<table>
<thead>
<tr>
<th>Field</th>
<th>Longitude (°)</th>
<th>Latitude (°)</th>
<th>27 May</th>
<th>12 June</th>
<th>14 July</th>
<th>30 July</th>
<th>15 August</th>
<th>31 August</th>
<th>16 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>102.90820</td>
<td>15.40197</td>
<td>−11.95</td>
<td>−13.82</td>
<td>−13.03</td>
<td>−9.50</td>
<td>−10.63</td>
<td>−10.40</td>
<td>−10.35</td>
</tr>
<tr>
<td>2</td>
<td>102.94892</td>
<td>15.35974</td>
<td>−15.09</td>
<td>−12.97</td>
<td>−14.34</td>
<td>−9.98</td>
<td>−7.15</td>
<td>−6.49</td>
<td>−5.57</td>
</tr>
<tr>
<td>3</td>
<td>102.94808</td>
<td>15.36072</td>
<td>−13.98</td>
<td>−13.29</td>
<td>−14.70</td>
<td>−10.94</td>
<td>−10.81</td>
<td>−9.53</td>
<td>−10.32</td>
</tr>
<tr>
<td>4</td>
<td>103.00520</td>
<td>15.40918</td>
<td>−13.63</td>
<td>−13.56</td>
<td>−12.81</td>
<td>−8.36</td>
<td>−8.85</td>
<td>−10.36</td>
<td>−7.51</td>
</tr>
<tr>
<td>5</td>
<td>102.87539</td>
<td>15.43132</td>
<td>−11.22</td>
<td>−7.38</td>
<td>−5.42</td>
<td>−8.38</td>
<td>−4.23</td>
<td>−5.42</td>
<td>−4.71</td>
</tr>
<tr>
<td>6</td>
<td>102.83124</td>
<td>15.36852</td>
<td>−10.48</td>
<td>−11.74</td>
<td>−9.54</td>
<td>−6.51</td>
<td>−4.33</td>
<td>−7.40</td>
<td>−7.11</td>
</tr>
<tr>
<td>7</td>
<td>102.82793</td>
<td>15.36195</td>
<td>−12.51</td>
<td>−8.43</td>
<td>−5.82</td>
<td>−7.12</td>
<td>−7.59</td>
<td>−8.74</td>
<td>−7.74</td>
</tr>
<tr>
<td>8</td>
<td>102.87563</td>
<td>15.36547</td>
<td>−10.15</td>
<td>−12.69</td>
<td>−11.11</td>
<td>−13.82</td>
<td>−13.86</td>
<td>−14.25</td>
<td>−9.05</td>
</tr>
<tr>
<td>10</td>
<td>102.91498</td>
<td>15.39137</td>
<td>−9.33</td>
<td>−13.15</td>
<td>−9.95</td>
<td>−6.41</td>
<td>−4.94</td>
<td>−6.31</td>
<td>−5.76</td>
</tr>
<tr>
<td>11</td>
<td>102.88529</td>
<td>15.45314</td>
<td>−12.21</td>
<td>−10.06</td>
<td>−5.62</td>
<td>−6.04</td>
<td>−5.09</td>
<td>−6.55</td>
<td>−7.95</td>
</tr>
<tr>
<td>12</td>
<td>102.84176</td>
<td>15.43193</td>
<td>−9.59</td>
<td>−8.77</td>
<td>−10.40</td>
<td>−6.16</td>
<td>−6.21</td>
<td>−7.41</td>
<td>−9.71</td>
</tr>
<tr>
<td>13</td>
<td>102.77235</td>
<td>15.49322</td>
<td>−6.25</td>
<td>−10.82</td>
<td>−7.13</td>
<td>−6.88</td>
<td>−7.49</td>
<td>−9.10</td>
<td>−4.98</td>
</tr>
<tr>
<td>15</td>
<td>102.82529</td>
<td>15.49559</td>
<td>−10.04</td>
<td>−12.15</td>
<td>−10.61</td>
<td>−7.36</td>
<td>−7.76</td>
<td>−8.46</td>
<td>−8.68</td>
</tr>
</tbody>
</table>

**Site ID 12 (Thailand, Suphan Buri)**

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>18 June</th>
<th>14 July</th>
<th>20 July</th>
<th>05 August</th>
<th>25 August</th>
<th>06 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>100.22177</td>
<td>14.42982</td>
<td>−10.27</td>
<td>−11.63</td>
<td>−14.32</td>
<td>−13.30</td>
<td>−11.42</td>
<td>−10.28</td>
</tr>
<tr>
<td>4</td>
<td>100.24810</td>
<td>14.32446</td>
<td>−12.09</td>
<td>−16.63</td>
<td>−10.95</td>
<td>−11.49</td>
<td>−10.61</td>
<td>−11.98</td>
</tr>
<tr>
<td>6</td>
<td>100.31038</td>
<td>14.32347</td>
<td>−10.26</td>
<td>−12.10</td>
<td>−11.65</td>
<td>−12.55</td>
<td>−11.26</td>
<td>−10.34</td>
</tr>
<tr>
<td>7</td>
<td>100.31311</td>
<td>14.31512</td>
<td>−13.25</td>
<td>−9.48</td>
<td>−8.82</td>
<td>−10.18</td>
<td>−10.90</td>
<td>−11.56</td>
</tr>
<tr>
<td>8</td>
<td>100.20565</td>
<td>14.32144</td>
<td>−6.92</td>
<td>−8.93</td>
<td>−10.20</td>
<td>−12.98</td>
<td>−8.18</td>
<td>−10.33</td>
</tr>
<tr>
<td>9</td>
<td>100.20263</td>
<td>14.67833</td>
<td>−8.06</td>
<td>−8.69</td>
<td>−8.10</td>
<td>−6.88</td>
<td>−8.43</td>
<td>−12.68</td>
</tr>
<tr>
<td>10</td>
<td>100.18363</td>
<td>14.71614</td>
<td>−6.13</td>
<td>−10.52</td>
<td>−13.01</td>
<td>−14.15</td>
<td>−13.21</td>
<td>−17.94</td>
</tr>
</tbody>
</table>
Table S2. Cont.

Site ID 12 (Thailand, Suphan Buri)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>18 June</th>
<th>14 July</th>
<th>20 July</th>
<th>05 August</th>
<th>25 August</th>
<th>06 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>100.12731</td>
<td>14.56469</td>
<td>−12.76</td>
<td>−13.22</td>
<td>−11.53</td>
<td>−11.11</td>
<td>−11.86</td>
<td>−12.57</td>
</tr>
<tr>
<td>16</td>
<td>100.17743</td>
<td>14.66880</td>
<td>−15.88</td>
<td>−11.99</td>
<td>−12.87</td>
<td>−8.89</td>
<td>−11.16</td>
<td>−12.86</td>
</tr>
<tr>
<td>18</td>
<td>100.19686</td>
<td>14.67024</td>
<td>−11.61</td>
<td>−9.91</td>
<td>−9.69</td>
<td>−9.17</td>
<td>−9.05</td>
<td>−12.00</td>
</tr>
<tr>
<td>19</td>
<td>100.20382</td>
<td>14.68491</td>
<td>−15.02</td>
<td>−13.80</td>
<td>−8.49</td>
<td>−11.94</td>
<td>−11.95</td>
<td>−13.35</td>
</tr>
</tbody>
</table>

Site ID 13 (Philippines, Nueva Ecija)

<table>
<thead>
<tr>
<th>Field</th>
<th>Long (°)</th>
<th>Lat (°)</th>
<th>25 May</th>
<th>05 June</th>
<th>16 June</th>
<th>27 June</th>
<th>08 July</th>
<th>19 July</th>
<th>30 July</th>
<th>01 September</th>
<th>12 September</th>
<th>23 September</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>120.97424</td>
<td>15.79432</td>
<td>−10.52</td>
<td>−10.35</td>
<td>−10.36</td>
<td>−9.53</td>
<td>−13.95</td>
<td>−11.66</td>
<td>−7.62</td>
<td>−11.51</td>
<td>−11.22</td>
<td>−10.61</td>
</tr>
<tr>
<td>2</td>
<td>120.97209</td>
<td>15.79317</td>
<td>−9.76</td>
<td>−10.09</td>
<td>−9.50</td>
<td>−14.94</td>
<td>−12.83</td>
<td>−11.24</td>
<td>−7.50</td>
<td>−11.68</td>
<td>−11.65</td>
<td>−11.17</td>
</tr>
<tr>
<td>3</td>
<td>120.97309</td>
<td>15.79794</td>
<td>−7.44</td>
<td>−10.55</td>
<td>−8.07</td>
<td>−10.25</td>
<td>−10.96</td>
<td>−10.40</td>
<td>−10.08</td>
<td>−9.48</td>
<td>−8.88</td>
<td>−10.33</td>
</tr>
<tr>
<td>4</td>
<td>120.96614</td>
<td>15.79342</td>
<td>−10.35</td>
<td>−11.24</td>
<td>−8.84</td>
<td>−8.94</td>
<td>−14.67</td>
<td>−13.25</td>
<td>−10.92</td>
<td>−11.83</td>
<td>−10.78</td>
<td>−11.57</td>
</tr>
<tr>
<td>5</td>
<td>120.90813</td>
<td>15.49465</td>
<td>−10.42</td>
<td>−10.97</td>
<td>−7.14</td>
<td>−7.12</td>
<td>−7.81</td>
<td>−13.95</td>
<td>−14.05</td>
<td>−7.07</td>
<td>−8.28</td>
<td>−9.70</td>
</tr>
<tr>
<td>6</td>
<td>120.90960</td>
<td>15.49754</td>
<td>−11.31</td>
<td>−11.19</td>
<td>−9.41</td>
<td>−7.32</td>
<td>−15.00</td>
<td>−9.86</td>
<td>−8.01</td>
<td>−8.85</td>
<td>−8.57</td>
<td>−9.29</td>
</tr>
<tr>
<td>7</td>
<td>120.90064</td>
<td>15.48716</td>
<td>−11.26</td>
<td>−15.79</td>
<td>−11.50</td>
<td>−10.35</td>
<td>−15.25</td>
<td>−15.11</td>
<td>−13.35</td>
<td>−13.06</td>
<td>−12.29</td>
<td>−12.09</td>
</tr>
<tr>
<td>8</td>
<td>120.88664</td>
<td>15.48614</td>
<td>−9.72</td>
<td>−10.64</td>
<td>−9.96</td>
<td>−7.70</td>
<td>−10.90</td>
<td>−15.19</td>
<td>−9.64</td>
<td>−7.10</td>
<td>−7.84</td>
<td>−9.77</td>
</tr>
<tr>
<td>9</td>
<td>120.93127</td>
<td>15.54822</td>
<td>−11.27</td>
<td>−10.52</td>
<td>−9.65</td>
<td>−9.32</td>
<td>−9.19</td>
<td>−8.98</td>
<td>−8.09</td>
<td>−7.67</td>
<td>−7.69</td>
<td>−8.22</td>
</tr>
<tr>
<td>10</td>
<td>120.95236</td>
<td>15.57775</td>
<td>−11.16</td>
<td>−7.06</td>
<td>−16.52</td>
<td>−15.17</td>
<td>−8.74</td>
<td>−6.22</td>
<td>−10.89</td>
<td>−12.13</td>
<td>−8.74</td>
<td>−5.64</td>
</tr>
<tr>
<td>12</td>
<td>120.96830</td>
<td>15.58829</td>
<td>−11.26</td>
<td>−7.93</td>
<td>−11.37</td>
<td>−12.90</td>
<td>−10.11</td>
<td>−7.02</td>
<td>−7.74</td>
<td>−11.30</td>
<td>−9.69</td>
<td>−8.33</td>
</tr>
<tr>
<td>13</td>
<td>120.95407</td>
<td>15.57045</td>
<td>−11.90</td>
<td>−11.24</td>
<td>−8.78</td>
<td>−9.33</td>
<td>−8.34</td>
<td>−10.79</td>
<td>−11.86</td>
<td>−7.38</td>
<td>−8.28</td>
<td>−9.04</td>
</tr>
<tr>
<td>14</td>
<td>120.86314</td>
<td>15.58945</td>
<td>−5.31</td>
<td>−7.96</td>
<td>−11.26</td>
<td>−12.98</td>
<td>−9.77</td>
<td>−6.28</td>
<td>−7.72</td>
<td>−10.13</td>
<td>−10.37</td>
<td>−8.76</td>
</tr>
<tr>
<td>15</td>
<td>120.84994</td>
<td>15.58427</td>
<td>−8.83</td>
<td>−8.99</td>
<td>−9.30</td>
<td>−9.52</td>
<td>−12.77</td>
<td>−10.24</td>
<td>−7.75</td>
<td>−12.84</td>
<td>−12.49</td>
<td>−8.96</td>
</tr>
<tr>
<td>16</td>
<td>120.85658</td>
<td>15.59508</td>
<td>−5.90</td>
<td>−7.82</td>
<td>−8.49</td>
<td>−10.30</td>
<td>−9.46</td>
<td>−7.65</td>
<td>−8.69</td>
<td>−13.76</td>
<td>−10.91</td>
<td>−9.76</td>
</tr>
<tr>
<td>17</td>
<td>120.85126</td>
<td>15.59493</td>
<td>−9.33</td>
<td>−9.00</td>
<td>−14.36</td>
<td>−11.10</td>
<td>−7.56</td>
<td>−8.29</td>
<td>−6.77</td>
<td>−10.60</td>
<td>−10.05</td>
<td>−5.84</td>
</tr>
<tr>
<td>18</td>
<td>120.86566</td>
<td>15.59772</td>
<td>−8.71</td>
<td>−7.28</td>
<td>−10.91</td>
<td>−13.95</td>
<td>−10.45</td>
<td>−6.67</td>
<td>−7.28</td>
<td>−11.78</td>
<td>−10.79</td>
<td>−9.24</td>
</tr>
</tbody>
</table>
Table S3. Confusion matrices for each site based on a two class rice/non-rice classification.

<table>
<thead>
<tr>
<th>Site ID 1 (Cambodia, Takeo)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>48</td>
<td>9</td>
</tr>
<tr>
<td>Rice from survey</td>
<td>6</td>
<td>37</td>
</tr>
<tr>
<td>Reliability</td>
<td>88.9%</td>
<td>80.4%</td>
</tr>
<tr>
<td>Kappa</td>
<td>0.70</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 2 (Philippines, Leyte East)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>36</td>
<td>13</td>
</tr>
<tr>
<td>Rice from survey</td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td>Reliability</td>
<td>100.0%</td>
<td>79.4%</td>
</tr>
<tr>
<td>Kappa</td>
<td>0.74</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 3 (Philippines, Leyte West)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>33</td>
<td>8</td>
</tr>
<tr>
<td>Rice from survey</td>
<td>1</td>
<td>43</td>
</tr>
<tr>
<td>Reliability</td>
<td>97.1%</td>
<td>84.3%</td>
</tr>
<tr>
<td>Kappa</td>
<td>0.79</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 4 (Philippines, Agusan Del Norte)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>Rice from survey</td>
<td>1</td>
<td>49</td>
</tr>
<tr>
<td>Reliability</td>
<td>97.6%</td>
<td>83.1%</td>
</tr>
<tr>
<td>Kappa</td>
<td>0.78</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 5 (Vietnam, Soc Trang)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>52</td>
<td>6</td>
</tr>
<tr>
<td>Rice from survey</td>
<td>8</td>
<td>42</td>
</tr>
<tr>
<td>Reliability</td>
<td>86.7%</td>
<td>87.5%</td>
</tr>
<tr>
<td>Kappa</td>
<td>0.74</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 6 (Vietnam, Nam Dinh)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>44</td>
<td>7</td>
</tr>
<tr>
<td>Rice from survey</td>
<td>4</td>
<td>45</td>
</tr>
<tr>
<td>Reliability</td>
<td>91.7%</td>
<td>86.5%</td>
</tr>
<tr>
<td>Kappa</td>
<td>0.78</td>
<td></td>
</tr>
<tr>
<td>Site ID 7 (Indonesia, Subang)</td>
<td>Predicted Class from the Map</td>
<td>Accuracy</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>61</td>
<td>4</td>
</tr>
<tr>
<td>Rice</td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td>Non-rice</td>
<td>100.0%</td>
<td>92.6%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kappa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 8 (India, Cuddalore)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>45</td>
<td>4</td>
</tr>
<tr>
<td>Rice</td>
<td>5</td>
<td>57</td>
</tr>
<tr>
<td>Non-rice</td>
<td>90.0%</td>
<td>93.4%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kappa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 9 (India, Thanjavur)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>Rice</td>
<td>5</td>
<td>37</td>
</tr>
<tr>
<td>Non-rice</td>
<td>91.8%</td>
<td>90.2%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kappa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 10 (India, Sivaganga)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>39</td>
<td>12</td>
</tr>
<tr>
<td>Rice</td>
<td>2</td>
<td>52</td>
</tr>
<tr>
<td>Non-rice</td>
<td>95.1%</td>
<td>81.3%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kappa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 11 (Thailand, Muang Yang)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>58</td>
<td>5</td>
</tr>
<tr>
<td>Rice</td>
<td>10</td>
<td>36</td>
</tr>
<tr>
<td>Non-rice</td>
<td>85.3%</td>
<td>87.8%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kappa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID 12 (Thailand, Suphan Buri)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>46</td>
<td>8</td>
</tr>
<tr>
<td>Rice</td>
<td>5</td>
<td>41</td>
</tr>
<tr>
<td>Non-rice</td>
<td>90.2%</td>
<td>83.7%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kappa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table S3. Cont.

<table>
<thead>
<tr>
<th>Site ID 13 (Philippines, Nueva Ecija)</th>
<th>Predicted Class from the Map</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rice</td>
<td>Non-Rice</td>
</tr>
<tr>
<td>Actual class from survey</td>
<td>43</td>
<td>7</td>
</tr>
<tr>
<td>Rice</td>
<td>7</td>
<td>43</td>
</tr>
<tr>
<td>Non-rice</td>
<td>86.0%</td>
<td>86.0%</td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

© 2014 by the authors; licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution license (http://creativecommons.org/licenses/by/4.0/).