

Supplementary Information

1. List of Available Imagery

Table S1. Acquisition dates and sensor for the Argentina test site.

Date	Sensor
03 February 2013	SPOT4
08 February 2013	SPOT4
28 February 2013	SPOT4
05 March 2013	SPOT4
10 March 2013	SPOT4
15 March 2013	SPOT4
30 March 2013	SPOT4
04 April 2013	SPOT4
09 April 2013	SPOT4
14 April 2013	SPOT4
19 April 2013	SPOT4
24 April 2013	SPOT4
29 April 2013	SPOT4
04 May 2013	SPOT4
09 May 2013	SPOT4
13 May 2013	Landsat 8
24 May 2013	SPOT4
29 May 2013	SPOT4
29 May 2013	Landsat 8
03 June 2013	SPOT4
08 June 2013	SPOT4
13 June 2013	SPOT4
14 June 2013	Landsat 8
16 July 2013	Landsat 8
17 August 2013	Landsat 8
02 September 2013	Landsat 8
18 September 2013	Landsat 8
05 November 2013	Landsat 8
21 November 2013	Landsat 8
07 December 2013	Landsat 8
23 December 2013	Landsat 8

Table S2. Acquisition dates and sensor for the Belgium test site.

Date	Sensor
18 March 2013	SPOT4
02 April 2013	SPOT4
07 April 2013	SPOT4
17 April 2013	SPOT4
22 April 2013	SPOT4
07 May 2013	SPOT4
27 May 2013	SPOT4
06 June 2013	SPOT4
28 July 2013	Landsat 8
30 September 2013	Landsat 8
03 December 2013	Landsat 8

Table S3. Acquisition dates and sensor for the BurkinaFaso test site.

Date	Sensor
11 May 2013	Landsat 8
12 June 2013	Landsat 8
14 July 2013	Landsat 8
16 September 2013	Landsat 8
02 October 2013	Landsat 8
18 October 2013	Landsat 8
03 November 2013	Landsat 8
05 December 2013	Landsat 8
21 December 2013	Landsat 8

Table S4. Acquisition dates and sensor for the China test site.

Date	Sensor
19 February 2013	SPOT4
01 March 2013	SPOT4
11 March 2013	SPOT4
16 March 2013	SPOT4
21 March 2013	SPOT4
26 March 2013	SPOT4
31 March 2013	SPOT4
10 April 2013	SPOT4
15 April 2013	SPOT4
25 April 2013	SPOT4
30 April 2013	SPOT4
05 May 2013	SPOT4
05 May 2013	Landsat 8
10 May 2013	SPOT4
15 May 2013	SPOT4
20 May 2013	SPOT4
21 May 2013	Landsat 8
30 May 2013	SPOT4
04 June 2013	SPOT4
06 June 2013	Landsat 8
14 June 2013	SPOT4
08 July 2013	Landsat 8
24 July 2013	Landsat 8
09 August 2013	Landsat 8
25 August 2013	Landsat 8
26 September 2013	Landsat 8
13 November 2013	Landsat 8
29 November 2013	Landsat 8

Table S5. Acquisition dates and sensor for the France test site.

Date	Sensor
16 February 2013	SPOT4
21 February 2013	SPOT4
03 March 2013	SPOT4
08 March 2013	SPOT4
18 March 2013	SPOT4
23 March 2013	SPOT4
12 April 2013	SPOT4
14 April 2013	Landsat 8
17 April 2013	SPOT4
22 April 2013	SPOT4
12 May 2013	SPOT4
17 May 2013	SPOT4
27 May 2013	SPOT4
06 June 2013	SPOT4
11 June 2013	SPOT4
16 June 2013	SPOT4
19 July 2013	Landsat 8
04 August 2013	Landsat 8
20 August 2013	Landsat 8
05 September 2013	Landsat 8
07 October 2013	Landsat 8
23 October 2013	Landsat 8
10 December 2013	Landsat 8

Table S6. Acquisition dates and sensor for the Madagascar test site.

Date	Sensor
08 February 2013	SPOT4
28 February 2013	SPOT4
10 March 2013	SPOT4
15 March 2013	SPOT4
25 March 2013	SPOT4
30 March 2013	SPOT4
04 April 2013	SPOT4
09 April 2013	SPOT4
14 April 2013	SPOT4
19 April 2013	SPOT4
22 April 2013	Landsat 8
24 April 2013	SPOT4
29 April 2013	SPOT4
09 May 2013	SPOT4
14 May 2013	SPOT4
19 May 2013	SPOT4
24 May 2013	SPOT4

Table S6. *Cont.*

Date	Sensor
24 May 2013	Landsat 8
29 May 2013	SPOT4
03 June 2013	SPOT4
08 June 2013	SPOT4
09 June 2013	Landsat 8
13 June 2013	SPOT4
18 June 2013	SPOT4
25 June 2013	Landsat 8
11 July 2013	Landsat 8
27 July 2013	Landsat 8
12 August 2013	Landsat 8
28 August 2013	Landsat 8
13 September 2013	Landsat 8
29 September 2013	Landsat 8
15 October 2013	Landsat 8
31 October 2013	Landsat 8
16 November 2013	Landsat 8
02 December 2013	Landsat 8
18 December 2013	Landsat 8

Table S7. Acquisition dates and sensor for the Morocco test site.

Date	Sensor
31 January 2013	SPOT4
05 February 2013	SPOT4
10 February 2013	SPOT4
25 February 2013	SPOT4
07 March 2013	SPOT4
12 March 2013	SPOT4
17 March 2013	SPOT4
22 March 2013	SPOT4
27 March 2013	SPOT4
01 April 2013	SPOT4
06 April 2013	SPOT4
11 April 2013	SPOT4
16 April 2013	SPOT4
19 April 2013	Landsat 8
21 April 2013	SPOT4
26 April 2013	SPOT4
01 May 2013	SPOT4
05 May 2013	Landsat 8
06 May 2013	SPOT4
11 May 2013	SPOT4
16 May 2013	SPOT4

Table S7. *Cont.*

Date	Sensor
21 May 2013	Landsat 8
26 May 2013	SPOT4
31 May 2013	SPOT4
05 June 2013	SPOT4
06 June 2013	Landsat 8
10 June 2013	SPOT4
15 June 2013	SPOT4
22 June 2013	Landsat 8
08 July 2013	Landsat 8
24 July 2013	Landsat 8
09 August 2013	Landsat 8
25 August 2013	Landsat 8
10 September 2013	Landsat 8
26 September 2013	Landsat 8
28 October 2013	Landsat 8
13 November 2013	Landsat 8
29 November 2013	Landsat 8
15 December 2013	Landsat 8
31 December 2013	Landsat 8

Table S8. Acquisition dates and sensor for the Pakistan test site.

Date	Sensor
25 May 2013	Landsat 8
10 June 2013	Landsat 8
19 June 2013	RapidEye
26 June 2013	Landsat 8
12 July 2013	Landsat 8
28 July 2013	Landsat 8
13 August 2013	Landsat 8
29 August 2013	Landsat 8
14 September 2013	Landsat 8
30 September 2013	Landsat 8
16 October 2013	Landsat 8
01 November 2013	Landsat 8
17 November 2013	Landsat 8
03 December 2013	Landsat 8

Table S9. Acquisition dates and sensor for the Russia test site.

Date	Sensor
29 April 2013	RapidEye
18 May 2013	RapidEye
07 June 2013	Landsat 8
20 June 2013	RapidEye
19 July 2013	RapidEye
25 July 2013	Landsat 8
10 August 2013	Landsat 8
13 October 2013	Landsat 8
29 October 2013	Landsat 8

Table S10. Acquisition dates and sensor for the SouthAfrica test site.

Date	Sensor
31 January 2013	SPOT4
05 February 2013	SPOT4
20 February 2013	SPOT4
25 February 2013	SPOT4
02 March 2013	SPOT4
12 March 2013	SPOT4
17 March 2013	SPOT4
22 March 2013	SPOT4
01 April 2013	SPOT4
06 April 2013	SPOT4
16 April 2013	SPOT4
21 April 2013	SPOT4
26 April 2013	SPOT4
26 April 2013	Landsat 8
01 May 2013	SPOT4
06 May 2013	SPOT4
11 May 2013	SPOT4
12 May 2013	Landsat 8
16 May 2013	SPOT4
21 May 2013	SPOT4
26 May 2013	SPOT4
28 May 2013	Landsat 8
31 May 2013	SPOT4
05 June 2013	SPOT4
10 June 2013	SPOT4
13 June 2013	Landsat 8
15 June 2013	SPOT4

Table S10. *Cont.*

Date	Sensor
29 June 2013	Landsat 8
15 July 2013	Landsat 8
31 July 2013	Landsat 8
16 August 2013	Landsat 8
01 September 2013	Landsat 8
17 September 2013	Landsat 8
19 October 2013	Landsat 8
04 November 2013	Landsat 8
20 November 2013	Landsat 8
22 December 2013	Landsat 8

Table S11. Acquisition dates and sensor for the Ukraine test site.

Date	Sensor
06 February 2013	SPOT4
26 February 2013	SPOT4
18 March 2013	SPOT4
02 April 2013	SPOT4
12 April 2013	SPOT4
16 April 2013	Landsat 8
17 April 2013	SPOT4
22 April 2013	SPOT4
27 April 2013	SPOT4
02 May 2013	SPOT4
02 May 2013	Landsat 8
07 May 2013	SPOT4
12 May 2013	SPOT4
17 May 2013	SPOT4
18 May 2013	Landsat 8
27 May 2013	SPOT4
01 June 2013	SPOT4
03 June 2013	Landsat 8
06 June 2013	SPOT4
11 June 2013	SPOT4
16 June 2013	SPOT4
19 June 2013	Landsat 8
05 July 2013	Landsat 8
21 July 2013	Landsat 8
06 August 2013	Landsat 8
22 August 2013	Landsat 8
10 November 2013	Landsat 8
28 December 2013	Landsat 8

Table S12. Acquisition dates and sensor for the USA test site.

Date	Sensor
31 January 2013	SPOT4
05 February 2013	SPOT4
10 February 2013	SPOT4
25 February 2013	SPOT4
02 March 2013	SPOT4
07 March 2013	SPOT4
12 March 2013	SPOT4
17 March 2013	SPOT4
22 March 2013	SPOT4
27 March 2013	SPOT4
01 April 2013	SPOT4
06 April 2013	SPOT4
11 April 2013	SPOT4
15 April 2013	Landsat 8
16 April 2013	SPOT4
21 April 2013	SPOT4
26 April 2013	SPOT4
01 May 2013	SPOT4
01 May 2013	Landsat 8
06 May 2013	SPOT4
11 May 2013	SPOT4
16 May 2013	SPOT4
17 May 2013	Landsat 8
21 May 2013	SPOT4
26 May 2013	SPOT4
31 May 2013	SPOT4
02 June 2013	Landsat 8
05 June 2013	SPOT4
10 June 2013	SPOT4
15 June 2013	SPOT4
18 June 2013	Landsat 8
04 July 2013	Landsat 8
20 July 2013	Landsat 8
06 September 2013	Landsat 8
22 September 2013	Landsat 8
08 October 2013	Landsat 8
24 October 2013	Landsat 8
09 November 2013	Landsat 8
25 November 2013	Landsat 8
11 December 2013	Landsat 8
27 December 2013	Landsat 8

2. In Situ Data Available

Table S13. Crop types and surfaces for the Argentina test site.

Class	Surface (Ha)
Soybeans	2175
Maize	580

Table S14. Crop types and surfaces for the Belgium test site.

Class	Surface (Ha)
Winter Wheat	55,449
Sugar beet	18,504
Winter Barley	12,466
Maize	11,669
Potatoes	11,209
Winter Rapeseed	5893
Flax	3823
Peas	3738
Chicory	2653
Spelt	2434
Spring Wheat	454
Oats	359
Spring Barley	347
Broad beans	179
Hemp	83
Rye	74
Spring Rapeseed	43
Linseed	24
Lupins	5
Soybeans	3

Table S15. Crop types and surfaces for the BurkinaFaso test site.

Class	Surface (Ha)
Cotton	57
Maize	41
Sorghum	20
Cow peas	12
Groundnuts	7
Sesame	6
Rice	2
Millet	2
Other annual crops	1

Table S16. Crop types and surfaces for the China test site.

Class	Surface (Ha)
Wheat	350
Other vegetables	18
Cotton	11

Table S17. Crop types and surfaces for the France test site.

Class	Surface (Ha)
Maize	3087
Wheat	2095
Sunflower	1012
Rapeseed	458
Barley	229
Soybeans	227
Sorghum	26
Peas	3
Hemp	1

Table S18. Crop types and surfaces for the Madagascar test site.

Class	Surface (Ha)
Soybeans	13
Maize	9
Rice	8

Table S19. Crop types and surfaces for the Morocco test site.

Class	Surface (Ha)
Wheat	1430
Wheat Oat	184
Maize	43
Alfalfa	31
Cantaloupes, oth. melons	22
Broad beans	5
Watermelons	5
Carrots	4
Broad beans Oats	3

Table S20. Crop types and surfaces for the Pakistan test site.

Class	Surface (Ha)
Rice	42
Sugar cane	25
Cotton	9
Other annual crops	8

Table S21. Crop types and surfaces for the Russia test site.

Class	Surface (Ha)
Winter Wheat	5649
Spring Barley	3124
Rapeseed	2214
Sunflower	572
Spring Wheat	436
Oats	386
Sugar beet	353
Maize	117
Buckwheat	110
Peas	83
Potatoes	64
Alfalfa	17

Table S22. Crop types and surfaces for the SouthAfrica test site.

Class	Surface (Ha)
Maize	6945
Sunflower	729
Soybeans	173
Alfalfa	22
Groundnuts	21

Table S23. Crop types and surfaces for the Ukraine test site.

Class	Surface (Ha)
Maize	5532
Soybeans	2600
Winter Wheat	2378
Sunflower	1555
Spring Wheat	905
Other cereals	829
Sugar beet	632
Rapeseed	535
Spring Barley	231
Potatoes	63
Other annual crops	53

Table S24. Crop types and surfaces for the USA test site.

Class	Surface (Ha)
Alfalfa	33,389
Cotton	21,855
Barley	10,559
Maize	7185
Wheat	1541
Cantaloupes, oth. melons	1334
Dbl Barley Sorghum	1249
Sorghum	751
Other hay	610
Winter Wheat	509
Oats	290
Dbl Oats Corn	38
Beans	32

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