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**Supplementary material**

2 **Table I:** Characteristics of the 122 satellite images used for SLA measurements. For Landsat images,  
 3 the pixel size is 15 and 30 m for the panchromatic and multispectral modes respectively (LT5 =  
 4 Landsat 5 TM, LE7 = Landsat 7 ETM+). For SPOT images the pixel size is 2.5, 5 or 10 m for the  
 5 panchromatic mode (P) and 10 or 20 m for the multispectral mode (XS) depending on the satellite. For  
 6 ASTER images the pixel size is 15 m.

Date	Sensor	Path-Row	Date	Sensor	Path-Row
31/08/1984	LT5	196-028 and 196-029	24/08/2001	SPOT-2 XS	050-259
09/09/1984	LT5	195-028 and 195-029	29/08/2001	SPOT-1 XS	051-257
02/08/1985	LT5	196-028 and 196-029	07/09/2001	ASTER-1	195-029
11/08/1985	LT5	195-028 and 195-029	02/10/2001	LE7	195-028 and 195-029
28/09/1985	LT5	195-029	02/08/2002	LE7	195-029
09/09/1986	LT5	196-028	18/08/2002	LE7	195-028
05/10/1986	SPOT 1 P	051-258 and 051-259	14/09/2002	SPOT-5 XS	051-258
17/10/1986	LT5	195-028	05/10/2002	LE7	195-028 and 195-029
09/09/1987	LT5	196-028	12/08/2003	ASTER	195-029
18/09/1987	LT5	195-029	13/08/2003	LT5	195-028 and 195-029
27/08/1988	LT5	195-028 and 195-029	22/08/2003	SPOT-2 P	052-259
12/09/1988	LT4	195-028 and 195-029	23/08/2003	SPOT-5 P	051-257 and 051-259
26/09/1988	SPOT-1 XS	050-259	21/09/2003	LT5	196-029
30/07/1989	SPOT-1 P	051-259	14/08/2004	ASTER	195-029
13/08/1989	LT5	195-029	27/08/2004	SPOT-5 XS	051-259
20/09/1989	SPOT-1 P	052-257 and 052-258	08/09/2004	LE7	195-028 and 195-029
01/09/1990	SPOT-2 XS	051-259	08/09/2004	ASTER	195-028 and 195-029
10/09/1990	LT5	195-028	01/08/2005	ASTER	195-027 and 195-028
19/08/1991	LT5	196-029	10/08/2005	LE7	195-028
25/08/1991	SPOT-2 P	052-257	02/09/2005	LE7	196-028 and 196-029
30/08/1991	SPOT-2 P	051-258 and 051-259	05/09/2006	LE7	196-028 and 196-029
05/08/1992	LT5	196-028	21/09/2006	LE7	196-028 and 196-029
17/09/1992	SPOT-1 XS	051-259	16/10/2006	LE7	195-028 and 195-029
21/09/1992	SPOT-1 XS	051-257 and 051-258	31/07/2007	LE7	195-028 and 195-029
26 07 1993	SPOT-1 XS	050-259	24/09/2007	LE7	196-028 and 196-029
02 09 1993	SPOT-2 XS	051-257	19/10/2007	LE7	195-029
09/08/1994	SPOT-3 P	052-257 and 051-259	19/10/2007	ASTER	196-028 and 196-029
15/08/1994	SPOT-3 P	050-259 and 052-259	18/08/2008	LE7	195-028 and 195-029
31/08/1995	SPOT-2 XS	051-259	02/09/2008	SPOT 5 XS	051-257, 052-258, 052-259 and 051-260
31/07/1996	SPOT-3 P	052-259	07/09/2008	SPOT 4 XS	051-259
08/08/1996	SPOT-2 XS	051-257	15/08/2009	SPOT-5 XS	052-257 and 052-258
30/09/1997	SPOT-1 XS	051-257, 051-258, 051-259 and 051-260	06/09/2009	LE7	195-029
26/08/1998	SPOT-4 XS	052-257	22/09/2009	LE7	195-028 and 195-029
30/08/1998	SPOT-4 XS	051-259 and 052-258	29/09/2009	LE7	196-029
02/09/1999	LE7	196-029	30/09/2009	LT5	195-028
11/09/1999	LE7	195-028 and 195-029	31/08/2010	LE7	196-028 and 196-029
12/08/2000	LE7	195-028	09/09/2010	LE7	195-029
26/08/2000	SPOT-1 XS	051-257	15/09/2010	SPOT-5 XS	052-258
28/08/2000	LE7	195-029	16/09/2010	ASTER	195-027, 195-028 and 195-029
			23/09/2010	SPOT-4 XS	050-259

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