



Supplementary Materials

Table S1 presents the details of Landsat images and tidal height used in this study.

Table S1. The Details of Landsat images and tidal height used in this study.

Sensor	Path/Row	Date (y/m/d)	Time (h:m:s)	Tidal Height (m)	Tidal Station	Selected Study Site
TM5	123/46	1987/09/10	02:23:48	1.7	Puqian	Dongzhaigang
TM5	124/46	1987/05/12	02:29:00			
TM5	123/47	1987/09/10	02:26:13			
TM5	125/47	1988/11/09	02:42:22	1.10	Dongfang	Dongfang
TM5	123/46	1993/04/03	02:21:19	1.08	Puqian	Dongzhaigang
TM5	124/46	1993/06/13	02:27:47	1.35	Yangpu	Xinyingwan
TM5	124/46	1993/06/13	02:27:47	1.24	Xinying	Xinyingwan
TM5	124/46	1993/06/13	02:27:47	0.95	Macun	Maniaogang
TM5	123/47	1993/04/03	02:21:43	0.92	Qinglan	Qinglangang
TM5	123/46	1998/08/23	02:37:38			
TM5	123/47	1998/08/23	02:38:03			
TM5	124/46	1998/04/24	02:42:22			
TM5	125/47	1998/10/24	02:50:42			
TM5	123/46	2003/06/02	02:34:37	1.28	Puqian	Dongzhaigang
TM5	123/46	2003/09/10	02:34:37	1.63	Puqian	Dongzhaigang
TM7	124/46	2003/05/16	02:53:58	1.39	Xinying	Xinyinggang
TM5	123/47	2003/06/02	02:35:01	1.52	Qinglan	Qinglangang
TM7	124/46	2003/05/16	02:53:58	2.05	Macun	Maniaogang
TM7	124/46	2003/05/16	02:53:58	2.02	Yangpu	Xinyingwan
TM5	125/47	2003/04/13	02:46:23	0.62	Dongfang	Dongfang
TM5	123/46	2007/07/15	02:52:45	1.39	Puqian	Dongzhaigang
TM5	124/46	2007/04/01	03:00:08	1.54	Yangpu	Xinyingwan
TM5	124/46	2007/04/01	03:00:08	1.76	Xinying	Xinyinggang
TM5	124/46	2007/04/01	03:00:08	1.71	Macun	Maniaogang
TM5	123/47	2007/07/15	02:53:09	1.64	Qinglan	Qinglangang
TM5	125/47	2007/04/24	03:06:34	0.50	Dongfang	Dongfang
OLI	123/46	2013/12/06	03:00:42	1.90	Puqian	Dongzhaigang
OLI	124/46	2013/05/19	03:07:17	1.37	Yangpu	Xinyingwan
OLI	124/46	2013/05/19	03:07:17	1.36	Xinying	Xinyinggang
OLI	123/47	2013/12/06	03:01:06	0.59	Qinglan	Qinglangang
OLI	125/47	2013/12/04	03:13:13	0.91	Dongfang	Dongfang
OLI	123/46	2017/04/21	02:58:29	0.77	Puqian	Dongzhaigang
OLI	124/46	2018/07/04	03:04:05	1.24	Yangpu	Xinyingwan
OLI	124/46	2018/07/04	03:04:05	1.43	Xinying	Xinyinggang
OLI	124/46	2018/07/04	03:04:05	1.02	Macun	Maniaogang
OLI	123/47	2017/04/21	02:58:53	1.00	Qinglan	Qinglangang
OLI	123/47	2018/04/08	02:58:53	1.08	Qinglan	Qinglangang
OLI	125/47	2017/09/10	03:11:57	1.00	Dongfang	Dongfang

Note: Tidal datum (below the mean sea level): Dongfang: 1.45 m; Macun: 1.74 m; Yangpu: 1.95 m; Qinglan: 0.95 m; Xinying: 2.05 m; Puqian: 1.30 m; Haikou: 1.50 m; Sanya: 0.90 m.

Figure S1 shows the coverage of Landsat images for the study area on Hainan Island.

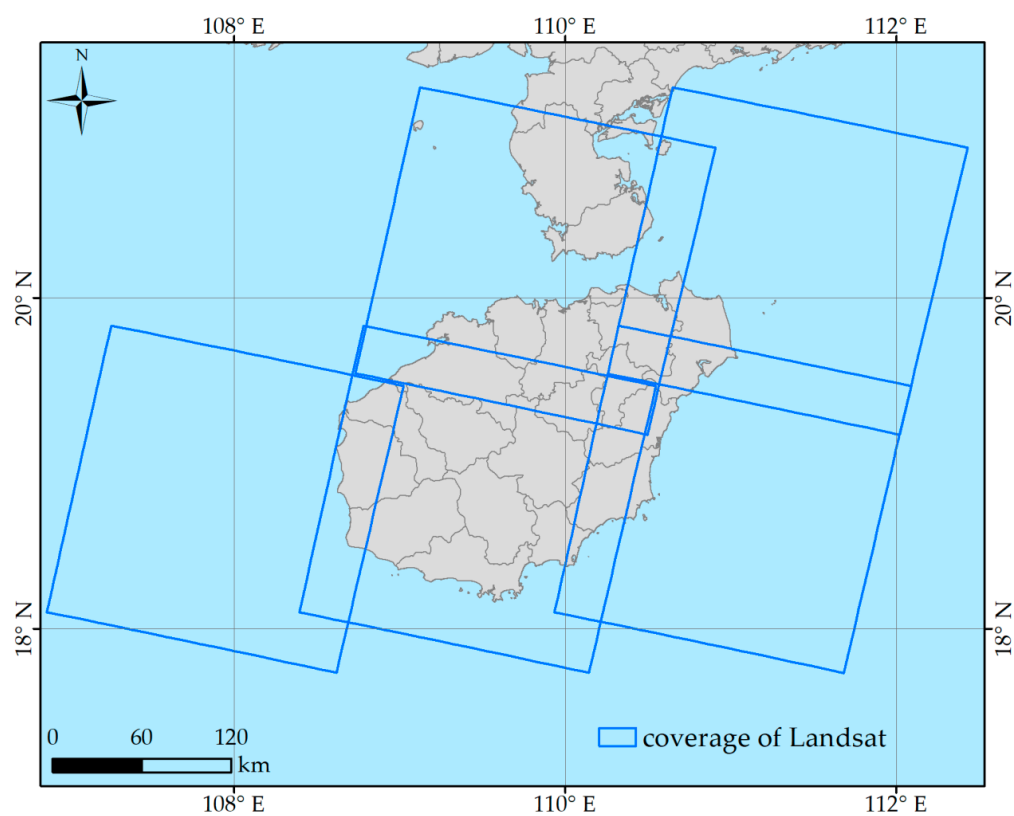


Figure S1. Coverage of Landsat images for the study area on Hainan Island.