

**Table 1. Channel characteristics of SSMIS sensor**

Channel	Center Freq.(GHz)	3-db Width (MHz)	Freq. Stab.(MHz)	Pol.	NEDT (K)	Sampling Interval(km)
1	50.3	380	10	V	0.34	37.5
2	52.8	389	10	V	0.32	37.5
3	53.596	380	10	V	0.33	37.5
4	54.4	383	10	V	0.33	37.5
5	55.5	391	10	V	0.34	37.5
6	57.29	330	10	RCP	0.41	37.5
7	59.4	239	10	RCP	0.40	37.5
8	150	1642(2)	200	H	0.89	12.5
9	183.31+/-6.6	1526(2)	200	H	0.97	12.5
10	183.31+/-3	1019(2)	200	H	0.67	12.5
11	183.31+/-1	513(2)	200	H	0.81	12.5
12	19.35	355	75	H	0.33	25
13	19.35	357	75	V	0.31	25
14	22.235	401	75	V	0.43	25
15	37	1616	75	H	0.25	25
16	37	1545	75	V	0.20	25
17	91.655	1418(2)	100	V	0.33	12.5
18	91.655	1411(2)	100	H	0.32	12.5
19	63.283248+/-0.285271	1.35(2)	0.08	RCP	2.7	75
20	60.792668+/-0.357892	1.35(2)	0.08	RCP	2.7	75
21	60.792668+/-0.357892+/-0.002	1.3(4)	0.08	RCP	1.9	75
22	60.792668+/-0.357892+/-0.0055	2.6(4)	0.12	RCP	1.3	75
23	60.792668+/-0.357892+/-0.016	7.35(4)	0.34	RCP	0.8	75
24	60.792668+/-0.357892+/-0.050	26.5(4)	0.84	RCP	0.9	37.5
Notes	<p>(1) Sampling refers to along scan direction based on 833km spacecraft altitude.  (2) NEDT for instrument temperature 0C and calibration target 260K with integration times of 8.4 msec for Channels 12-16; 12.6 msec for Channels 1-7, 24; and 25.2 msec for Channels 19-23 and 4.2 msec for Channels 8-11, 17-18.  (3) Number of sub-bands is indicated by (n) next to individual 3-db width  (4) RCP denotes right-hand circular polarization.</p>					