2.1.2 Details of emergency observations by Daichi

The details of emergency observations conducted by Daichi are shown in Table 2.1-2. Although observations could not be conducted on the day of the disaster, on March 12 (the day after the earthquake), the Tohoku inland area and the Sendai district were observed using AVNIR-2 and PRISM. On March 13, PALSAR observed Sendai and other areas along the coast of Miyagi and Fukushima prefectures, and AVNIR-2 observed wider areas along the Pacific coast from Tohoku to Chiba on March 14. Observations were continued until April 20, and a total of 643 scenes were observed (see Table 2.1-3).

Daichi could not be used for observations after April 22 due to an electrical power system fault, and its operations were halted on May 12. Its final observation in relation to the Great East Japan Earthquake was on April 20.

Table 2.1-2 Details of emergency observations by Daichi

Observation date	Descending orbit	Ascending orbit	Sensor	AVNIR: pointing angle PALSAR: incidence angle	Observation area
March 12, 2011	○		PRISM	0	Inland Tohoku (Aomori to Fukushima), Sendai area
	○		AVNIR-2	0	Inland Tohoku (Aomori to Fukushima), Sendai area
March 13	○		AVNIR-2	44	Niigata, Nagano, Gifu
		○	PALSAR	46.6	Tsugaru Peninsula from the Miyagi/Fukushima coast through inland areas
March 14	○		AVNIR-2	-23	Pacific coast (Tohoku to Chiba)
	○		PALSAR	27.1	Hokkaido to the Tohoku, Kanto and Tokai regions
March 15	○		AVNIR-2	37	Pacific coast and inland from Aomori to Fukushima
		○	PALSAR	34.3	Iwate coast and the Shimokita Peninsula
March 16	○		AVNIR-2	-42	Pacific coast and inland from Aomori to Fukushima
	○		PALSAR	43.4	Miyagi, Fukushima and Ibaraki coast from the Shimokita Peninsula through inland Iwate
March 17	○		AVNIR-2	16	Pacific coast (Tohoku to Ibaraki)
		○	PALSAR	14	Pacific coast (Iwate to Aomori)
March 18		○	PALSAR	50	Tsugaru Peninsula from the Miyagi/Fukushima coast through inland Akita
March 19	○		AVNIR-2	-12.8	Pacific coast (Tohoku to Ibaraki)
	○		PALSAR	14	Pacific coast (Tohoku to Ibaraki)
March 20	○		AVNIR-2	42	Pacific coast and inland from Aomori to Fukushima
		○	PALSAR	34.3	Akita coast from the Ibaraki coast through inland areas
March 21	○		AVNIR-2	-36.5	Pacific coast and inland from Aomori to Fukushima
	○		PALSAR	34.3	Iwate coast
March 22	○		AVNIR-2	25	Pacific coast (Tohoku to Ibaraki)
		○	PALSAR	14	Akita coast from the Miyagi/Fukushima coast through inland areas
March 23	○		PALSAR	50	Miyagi/Fukushima coast from the Aomori coast through inland Iwate
March 24	○		PRISM	0	Pacific coast (Tohoku to Ibaraki)
	○		AVNIR-2	0	Pacific coast (Tohoku to Ibaraki)
March 25	○		AVNIR-2	44	Inland Tohoku, Sea of Japan coast and areas near Sendai
		○	PALSAR	43.4	Tsugaru Peninsula from the Miyagi/Fukushima coast through inland Akita
March 26	○		AVNIR-2	-28.5	Pacific coast (Tohoku to Ibaraki)
	○		PALSAR	28.8	Pacific coast (Tohoku to Ibaraki)
March 27	○		AVNIR-2	32.5	Pacific coast (Tohoku to Ibaraki)
		○	PALSAR	25.8	Tsugaru Peninsula from the Miyagi/Fukushima coast through inland Akita
March 28	○		AVNIR-2	-44	Pacific coast (Tohoku to Fukushima)

Observation date	Descending orbit	Ascending orbit	Sensor	AVNIR: pointing angle PALSAR: incidence angle	Observation area
March 29	○		AVNIR-2	1.9	Kanagawa coast from the Shimokita Peninsula through inland Tohoku and Kanto
March 30		○	PALSAR	47.8	Tsugaru Peninsula from the Miyagi/Fukushima coast through inland Akita
March 31	○		AVNIR-2	-25	Kanagawa coast from the Shimokita Peninsula through inland Tohoku and Kanto
	○		PALSAR	27.1	Tohoku to Chubu
April 1	○		AVNIR-2	38	Pacific coast and inland areas between Aomori and Chiba/Kanagawa
		○	PALSAR	34.3	Tsugaru Peninsula from the Miyagi/Fukushima coast through inland Akita
April 2	○		AVNIR-2	-41	Pacific coast and inland areas between Aomori and Chiba
	○		PALSAR	41.5	Pacific coast (Miyagi to Chiba) from the Pacific coast near Aomori through inland Iwate
April 3	○		AVNIR-2	14	Inland areas from Aomori to Tokyo/Kanagawa
April 5	○		AVNIR-2	-9	Pacific coast (Tohoku to Chiba)
	○		PALSAR	27.1	Sea of Japan coast in Tohoku to the Hokuriku and Chubu regions
April 6	○		AVNIR-2	43	Pacific coast and inland areas from Aomori to Chiba
April 7	○		AVNIR-2	-34	Pacific coast (Tohoku to Chiba)
	○		PALSAR	34.3	Pacific coast (Tohoku to Chiba)
April 8	○		ANVIR-2	28	Pacific coast (Tohoku to Chiba)
		○	PALSAR	21.5	Ou mountains to Sendai
April 10	○		AVNIR-2	0	Pacific coast (Tohoku to Chiba)
	○		PRISM	1.2	Hokkaido to the Pacific coast (Tohoku to Chiba)
April 11	○		AVNIR-2	44	Hokkaido to the Tohoku region along the Sea of Japan
April 12	○		AVNIR-2	-26	Pacific coast (Tohoku to Chiba)
	○		PALSAR	34.3	Tohoku region along the Sea of Japan
April 13	○		AVNIR-2	35.3	Pacific coast (Tohoku to Chiba)
		○	PALSAR	34.3	Miyagi and Iwate coast
April 14	○		AVNIR-2	-44	Pacific coast (Tohoku to Chiba) and inland Tohoku
April 15	○		AVNIR-2	12.5	Pacific coast (Tohoku to Chiba)
April 17	○		AVNIR-2	-16	Pacific coast (Tohoku to Chiba)
	○		PALSAR	27.1	From Tohoku to Chubu
April 18	○		AVNIR-2	41	Pacific coast (Tohoku to Ibaraki and southern Chiba)
		○	PALSAR	34.3	Miyagi and Fukushima to Akita and the Sea of Japan coast in Aomori
April 19	○		AVNIR-2	-39	Pacific coast (Tohoku to Chiba) and inland Tohoku
April 20	○		AVNIR-2	22.5	Pacific coast (Tohoku to Chiba)

Table 2.1-3 Number of scenes observed according to sensors (March 12, 2011－April 20, 2011)

Sensor		Number of observation scenes		
		3/12-3/31	4/1-4/20	3/12-4/20
AVNIR-2		162	217	379
PRISM	OB1	0	25	25
	OB2	32	0	32
PALSAR	FBS	111	74	185
	FBD	8	0	8
	WB1	8	6	14
Total		321	322	643

※Observation period: March 12 to April 20, 2011