

2. Outline of Research and Field Survey

After the 2011 Tohoku earthquake, the Joint Survey Team started a series of research and field survey, and some of them were done in cooperation with other institutes. The outline of the research and field survey from March 11th to April 20th is as follows.

2.1 Outline of Research

The Joint Survey Team obtained information about the features of the 2011 Tohoku earthquake and tsunami based on observational data from research institutes in Japan and overseas including the Japan Meteorological Agency (JMA) and the National Research Institute for Earth Science and Disaster Prevention (NIED), strong motion seismogram of the BRI Strong Motion Observation Network, etc.

2.1.1 Mechanism of earthquake and tsunami

BRI confirmed the mechanism of the 2011 Tohoku earthquake through obtaining its precise hypocenters, identifying fault planes of major earthquakes and estimating magnitude based on duration of high frequency energy radiation. BRI also estimated the source of the tsunami using the tsunami waveform inversion based on data from tsunami sensors and tide gauges around Japan and simulated the tsunami based on the tsunami source model. Researchers involved are as follows.

Table 2.1-1 List of Researchers (1)

BRI	Nobuo Hurukawa, Dr.	Research Coordinator
	Tatsuhiko Hara, Dr.	Chief Research Scientist
	Yushiro Fujii, Dr.	Senior Research Scientist

2.1.2 Earthquake motion observation

NILIM and BRI showed the feature of the earthquake motion of the mainshock and its major aftershocks based on strong motion seismograms of the BRI Strong Motion Network, etc. Researchers involved are as follows.

Table2.1-2 List of Researchers (2)

NILIM	Tatsuya Azuhata, Dr.	Division Head
BRI	Shin Koyama, Dr.	Chief Research Engineer
	Toshihide Kashima, Dr.	Senior Research Engineer
	Tadashi Ishihara, Dr.	Senior Research Engineer

2.2 Outline of Field Survey

NILIM and BRI sent a total of 150 researchers to disaster areas in Iwate, Miyagi, Fukushima, Ibaraki, Tochigi and Chiba prefectures (Surveyed cities and towns are shown in Fig.2.2-1) from March 12th, the next day of the 2011 Tohoku earthquake, to April 16th, 2011 and surveyed damage situation on buildings categorized according to building structure, building use, cause of damage (earthquake motion, tsunami, fire), etc. Some surveys were done on the request of MLIT. Researchers involved in those field surveys are as follows.

Table 2.2-1 List of Researchers (3)

NILIM	Ichiro Minato	Senior Research Fellow
	Tatsuya Azuhata, Dr.	Division Head
	Atsuo Fukai	Division Head
	Takahiro Tsuchimoto, Dr.	Division Head
	Masashi Miyamura	Senior Researcher
	Namihiko Inoue	Senior Researcher
	Hiroshi Arai, Dr.	Senior Researcher
	Hitomitsu Kikitsu, Dr.	Senior Researcher
	Yoshihiro Iwata, Dr.	Senior Researcher
	Haruhiko Suwada, Dr.	Researcher
BRI	Masanori Iiba, Dr.	Director
	Naohito Kawai, Dr.	Chief Research Engineer (at present, Professor of Kogakuin University)
	Ichiro Hagiwara, Dr.	Chief Research Engineer
	Yasuo Okuda, Dr.	Chief Research Engineer
	Hiroshi Fukuyama, Dr.	Chief Research Engineer
	Taiki Saito, Dr.	Chief Research Engineer
	Shiro Nakajima, Dr.	Chief Research Engineer
	Koichi Morita, Dr.	Chief Research Engineer
	Nobuyoshi Yamaguchi, Dr.	Senior Research Engineer
	Hiroto Kato	Senior Research Engineer
	Tsutomu Hirade, Dr.	Senior Research Engineer
	Takashi Hasegawa, Dr.	Senior Research Engineer
	Yoshio Wakiyama, Dr.	Senior Research Engineer
	Takafumi Nakagawa, Dr.	Senior Research Engineer
	Tadashi Ishihara, Dr.	Senior Research Engineer
	Yasuhiro Araki, Dr.	Research Engineer
Masanori Tani, Dr.	Research Engineer	
Toshikazu Kabeyasawa, Dr.	Research Engineer	
Hideki Matsumoto	Cooperative Researcher	

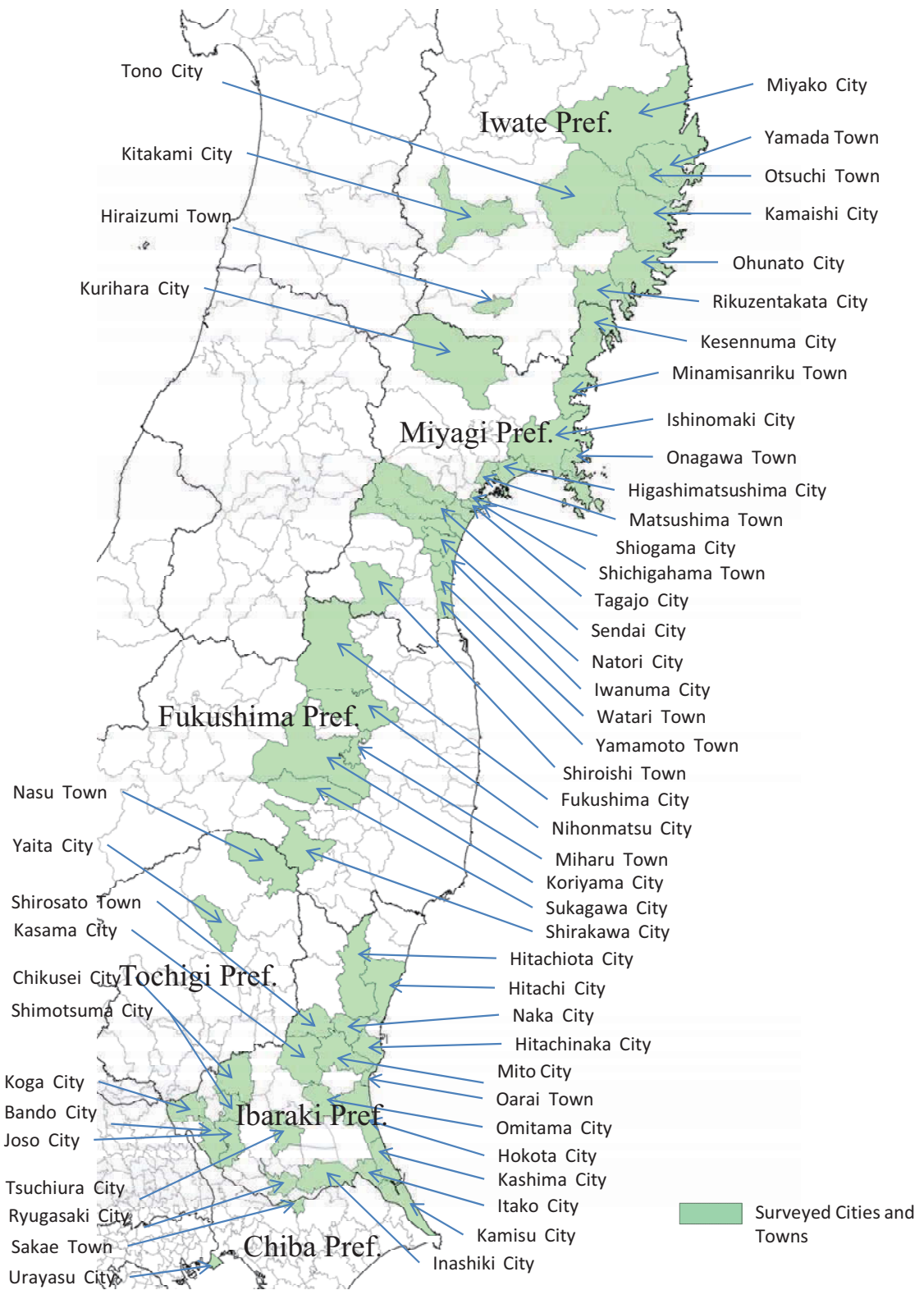


Fig.2.2-1 Location of Surveyed Cities and Towns

