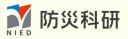
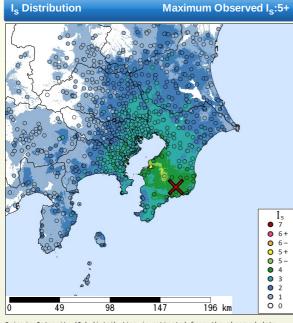


### Updated: 2023-05-11 04:28:03 (UTC+9) Ver.5 Final Report



#### 2023-05-11 04:16 (UTC+9), SOUTHERN CHIBA, 40km Depth, M 5.4 by JMA

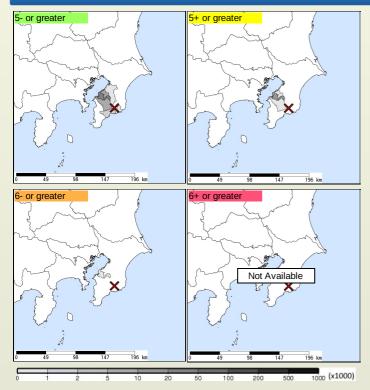


Estimate	d I <sub>s</sub> for Major Citi	ies
Obs. L.	istogram f Estimated I <sub>s</sub> 1 2 3 4 5-5+6-6+7	М
5+		Ki
4		Ka
4		Icl
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4		Na
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3		Ac
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3		Sι
3		Ita
3		Ne
3		Se
The histogram	shows frequency distr	ibu

am nated I <sub>s</sub> <mark>4 5-5+6-6+7</mark>	Municipality	Nighttime Population	
<b></b>	Kisarazu,Chiba	130,000	32
	Kanagawa,Yokohama,Kanagawa	230,000	60
	Ichihara,Chiba	280,000	33
_	Asahi,Yokohama,Kanagawa	250,000	66
_	Totsuka,Yokohama,Kanagawa	280,000	64
_	Shinagawa, Tokyo	370,000	62
=	Nakahara,Kawasaki,Kanagawa	240,000	64
	Koto,Tokyo	460,000	62
=	Kohoku,Yokohama,Kanagawa	330,000	62
_	Tsurumi, Yokohama, Kanagawa	270,000	58
_	Kanazawa, Yokohama, Kanagawa	210,000	54
_	Ota,Tokyo	690,000	59
_	Adachi,Tokyo	680,000	73
_	Edogawa,Tokyo	680,000	63
	Funabashi, Chiba	610,000	58
	Kawaguchi,Saitama	560,000	80
	Suginami, Tokyo	550,000	75
	Itabashi,Tokyo	540,000	75
	Nerima,Tokyo	710,000	77
	Setagaya,Tokyo	870,000	70

Seismic Intensity  $(I_S)$  distribution is estimated from the observed data (circles) of NIED K-NET, KiK-net, JMA, and local governments that had been collected by 2023/65/11.04:127:03.

Is Exposed-Population Estimates of Each City



## Major Historical Damaging Earthquakes in This Region

Year	Region	М	Damage
1921	Southern Ibaraki	7.0	Ryugasaki Earthquake,Minor damage in Chiba and Ibaraki such as damage to houses and roads.
1922	West coast, Chiba	6.8	Uragasuido Earthquake,1 dead in Tokyo, 1 dead in Yokohama, Kanagawa. Houses were damaged.
1923	Western Kanagawa	7.9	Kanto Earthquake, The maximum amplitude of 14-20 cm was observed in Tokyo. Over 105,000 dead or missing, over 109,000 houses collapsed, 102,000 partially destroyed, over 212,000 destroyed by fire. Many landslides. Tsunamis struck the coast of Kanto. Wave heights were 12 m in Atami, Sizuoka; 9.3 m in Alhama, Chiba.
1924	Western Kanagawa		Tanzawa Earthquake,19 dead, over 1,200 houses collapsed.
1978	Near Izu-Oshima Island	7.0	Izu Oshima Kinkai Earthquake,25 dead, 211 injured, 96 houses collapsed, 616 partially destroyed, 1,141 roads damaged, 191 landslides.
1980	E Off Izu Peninsula	6.7	1 house collapsed, 17 partially damaged, 7 injured in Izu Peninsula.
1987	E Off Chiba	6.7	2 dead, 161 injured in Chiba. 16 houses collapsed and over 70,000 partially destroyed. Many roads damaged.
2012	E Off Chiba	6.1	The crustal earthquake with normal faults, induced by the 2011 off the Pacific Coast of Tohoku Earthquake. 1 dead, 1 injured. Maximum Is was 5+.
Reference: National Astronomical Observatory of Japan, Chronological Scientific Tables, Maruzen, (2017) *partially extracted			

# The histogram shows frequency distribution of estimated Is derived from interpolation of the observation with 250-m mesh. The daytime and nighttime correspond to 9:00-18:59 and 19:00-8:59, respectively. The distance is measured from the epicenter to the center of the municipality.

	5- or	5+ or	6- or	6+ or
	greater	greater	greater	greater
Whole of Japan	50,000	20,000	< 1,000	
Chiba Prefecture	50,000	20,000	< 1,000	
Kisarazu,Chiba	50,000	10,000	< 1,000	
Katsura,Chiba	< 1,000			
Ichihara,Chiba	< 1,000			
Kamogawa,Chiba	2,000			
Kimitsu,Chiba	10,000	1,000		
Sodegaura,Chiba	5,000	< 1,000		

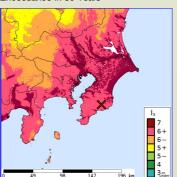
The summation of the exposed population for each city does not necessarily equal to that of the prefecture or whole of Japan.

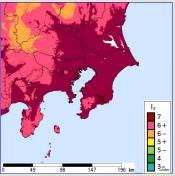
#### Seismic Hazard Information of J-SHIS

<u>J-SHIS</u> is a Web service by NIED, to help prevent and prepare for earthquake disaster by providing a public portal for seismic hazard information across Japan.

Is Distribution of 2% Probability of Exceedance in 50 Years







(c) 2013 NIED