

Table 8. List of scientists participating in each cruise.

JARE (Year)	Name of members	Affiliations *
JARE-51 (2009/10)		
<i>Shirase</i>	H. Shinagawa	University of Tsukuba
JARE-52 (2010/11)		
<i>Shirase</i>	T. Odate	National Institute of Polar Research
<i>Umitaka-Maru</i>	K. Uchiyama	Tokyo University of Marine Science and Technology
JARE-53 (2011/12)		
<i>Shirase</i>	K.T. Takahashi	National Institute of Polar Research
<i>Umitaka-Maru</i>	T. Iida	National Institute of Polar Research
JARE-54 (2012/13)		
<i>Shirase</i>	T. Takamura	National Institute of Polar Research
<i>Umitaka-Maru</i>	T. Iida	National Institute of Polar Research

*Affiliations are for the year each scientist was on board.