## Uses of space-based technologies in tsunami early warning systems

Type of space	Sub-type of space	Applications / comments
technology	technology	
	Moderate resolution optical satellite imagery (pixel size up to 10 meters resolution)	Location of urban and rural areas exposed to tsunamis
	High resolution optical satellite imagery (down to 1-meter resolution or less)	Location of critical infrastructure, road network on coastal areas, other types of infrastructure exposed to tsunamis, as well as industrial, commercial, touristic, educational, health, housing, financial, religious, and cultural facilities in areas exposed to tsunamis  Identification of potential evacuation routes and safe areas
	digital elevation	Used in combination with tsunami modelling to model tsunami propagation inland for national-level purposes and rural areas
	High resolution digital elevation models	Used in combination with tsunami modelling to improve models of tsunami propagation inland for local- or urban-level purposes like ports and coastal cities
Satellite telecommunications		Used for the transmission of data from sensors deployed in remote areas and from buoys at sea to Regional Tsunami Watch Centres.
	Transmission of texts	The World Meteorological Organization has allowed for the use of meteorological satellites to transmit information about tsunamis within continents and from one continent to another one.
Global Navigation Satellite Systems	System (GPS, United States), GLObal NAvigation Satellite	Geographic location of critical infrastructure, road infrastructure (bridges), buildings, industrial facilities. Assessment of the magnitude of strong earthquakes.