

#	Solar System	Minerals	Rocks	Hydrothermal Vents	Volcanoes & Earthquakes	Hurricanes & Typhoons
1	Phobos, Mars' moon	pyrite	basalt	TAG, Mid-Atlantic Ridge	Nepal Earthquake, 2015	Not Named 1935 Sept. (Florida Keys)
2	Deimos, Mars' moon	sphalerite	granite	Lucky Strike, Mid-Atlantic Ridge	Tohoku Earthquake & Tsunami, Japan, 3/11/2011	Not Named 1928 Sept. (Lake Okeechobee)
3	Io, Jupiter's moon	hematite	gabbro	Solitaire Field, Central Indian Ridge	Sabah Earthquake, Mt. Kinabalu, Malaysia, 6/5/2015	Mitch 1998
4	Europa, Jupiter's moon	amphibole (hornblende)	andesite	Rose Garden, Galapagos Rift	Ludian Earthquake, China, 8/4/2014	Nargis 2008 (Myanmar)
5	Ganymede, Jupiter's moon	halite	schist	Salty Dawg Field, Juan de Fuca Ridge	Sumatra Earthquake, Indonesia 12/26/2004	Nina 1975 (China)
6	Callisto, Jupiter's moon	pyroxene (augite)	rhyolite	Lost City, Mid-Atlantic Ridge	Karengetang Volcano, Indonesia (2015)	Sandy 2012
7	Titan, Saturn's moon	gypsum	obsidian	Venture, East Pacific Rise	Wolf Volcano, Galapagos Is., Ecuador (2015)	Wilma 2005
8	Phoebe, Saturn's moon	talca	scoria	Eel City, American Samoa	Mount Sakurajima, Japan (2014-2015)	Morakot 2009 (Taiwan)
9	Iapetus, Saturn's moon	plagioclase feldspar	pumice	Kairei Field, Indian Ocean	Calbuco Volcano, Chile (2015)	Gustav 2008
10	Rhea, Saturn's moon	chalcopyrite	conglomerate	Ashadze, Mid-Atlantic Ridge	Colima Volcano, Mexico (2015)	Katrina 2005
11	Dione, Saturn's moon	quartz	shale	Piccard, Mid-Cayman Rise	Pavlof Volcano, Alaska (2014)	Rita 2005
12	Tethys, Saturn's moon	olivine	sandstone	Magic Mountain, Pacific Ocean	Mount Sinabung, Indonesia (2014-2015)	Charley 2004
13	Mimas, Saturn's moon	graphite	marble	Mothra, Juan de Fuca Ridge	Bonin Islands Earthquake, 2015	Nancy 1961 (Japan)
14	Enceladus, Saturn's moon	muscovite	gneiss	Snake Pit, Mid-Atlantic Ridge	Mount Etna, Italy (2015)	Jeanne 2004
15	Ariel, Uranus' moon	calcite	breccia	Worm Hole, East Pacific Rise	Mount Bardarbunga, Iceland (2014-2015)	Tracy 1974 (Australia)
16	Miranda, Uranus' moon	galena	fossiliferous limestone	Edmond Field, Central Indian Ridge	Samoa Islands Earthquake & Tsunami, 9/29/2009	Tip 1979 (Japan)
17	Triton, Neptune's moon	biotite	oolitic limestone	Broken Spur, Mid-Atlantic Ridge	Craig Alaska Earthquake, 2013	Andrew 1992
18	Pluto, dwarf planet	potassium feldspar	chalk	Loihi Seamount, Hawaii	Tungurahua Volcano, Ecuador (2015)	Isabel 2003
19	Charon and Pluto's moons	magnetite	coquina	Main Endeavour Field, Juan de Fuca Ridge	Port-au-Prince Earthquake, Haiti, 1/12/2010	Frances 2004
20	Ceres, Vesta, & the asteroid belt	sulfur	chert	PACMANUS, South Pacific	Christchurch Earthquake, New Zealand 2/21/2011	Not Named 1926 Sept. (Miami)
21	Eris, dwarf planet	fluorite	slate	Rainbow, Mid-Atlantic Ridge	Fogo Volcano, Cape Verde (2014-2015)	Ike 2008
22	Makemake, Haumea, & Kuiper Belt	corundum	diorite	Moytirra, Mid-Atlantic Ridge	Piton de al Fournais, Reunion Island (2015)	Hugo 1989
23	Comets & the Oort Cloud	tourmaline	coal	Menz Gwen, Mid-Atlantic Ridge	Gamalama Volcano, Indonesia (2015)	Donna 1960
24	Meteors & Meteorites	topaz	quartzite	Logatchev, Mid-Atlantic Ridge	Iquique Earthquake, Chile 4/1/2014	Not Named 1900 Sept. (Galveston)
25	Mercury	apatite	rock gypsum	Champagne Vent Field, Eifuku Seamount, Mariana Trench		Vera (Isewan), 1959 (Japan)
						<i>Careful with crossing international dateline; can obscure Japan, etc.</i>

Marine Sediments	Tides	Deltas and Estuaries
manganese nodules	Maine & Texas	Gulf of Ob, Russia
tektites	New Hampshire & Louisiana	Congo River Delta, Congo
ooids	Massachusetts & Mississippi	Sognefjord, Norway
dropstones (icebergs)	Connecticut & Alabama	Ganges-Brahmaputra Delta
Halimeda	Rhode Island & Florida	Golden Horn Estuary, Turkey
sponge spicules	Pennsylvania & Alaska	Rio del la Plata, Brazil
stromatolites	New York & Washington State	Gulf of Saint Lawrence Estuary
coccolithophores	New Jersey & Oregon	Scoresby Sund Fjord, Greenland
pennate diatoms	Delaware & California	Humber Estuary, England
turbidites	Maryland & Hawaii	Amazon River Delta
centric diatoms	Virginia & American Samoa	Shannon Estuary, Ireland
phosphorite	North Carolina & Marshall Islands	Danube River Delta, Romania
pteropod ooze	South Carolina & Midway Islands	Mekong River Delta, Vietnam
evaporites	Georgia & Wake Island	Niger River Delta, Nigeria
benthic foraminifera	Washington DC & Guam	Tigris-Euphrates River Delta
planktonic foraminifera	Maine & Puerto Rico	Yellow River Delta, China
Spumellaria radiolaria	Massachusetts & Virgin Islands	Rhone River, France
Nassellaria radiolaria	New York & Barbuda/Antigua	Indus River Delta, Pakistan
Discoaster	New Jersey & Alaska	Sandy Creek Estuary, Darwin, Australia
atolls	Delaware & Louisiana	Rhine-Meuse Rivers Delta, Belgium
volcanic ash	Maryland & Mississippi	Gironde Estuary, France
meteorites	Virginia & California	Chesapeake Bay
wind blown dust	North Carolina & Texas	Tenakee River Delta, Alaska
red clay	South Carolina & Washington	Severn Estuary, England
Silicoflagellates	Georgia & Oregon	Yukon River Delta, Alaska