

When Do Spring Tides Occur

== Astronomical causes == 39ff772606 == Main types == 39ff772606 == Simple explanation == 39ff772606

Ocean power in New Zealand According to their 10 February 2008 newsletter, they have 59 members. However, the association doesn't list its members. The Aotearoa Wave and Tidal Energy Association was established in 2006 to "promote the uptake of marine energy in New Zealand". The entrance to Kaipara Harbour, one of the largest harbours New Zealand has large ocean energy resources but does not yet generate any power from them. speed doubles, eight times more tidal power can be produced at spring tides than at neap tides. However, not a lot of public information is available about these projects. TVNZ reported in 2007 that over 20 wave and tidal power projects are currently under development 39ff772606

Harmful algal bloom Blooms can last from a few days to many months. HABs are sometimes defined as only those algal blooms that produce toxins, and sometimes as any algal bloom that can result in severely lower oxygen levels in natural waters, killing organisms in marine or fresh waters. After the bloom dies, the microbes that decompose the dead algae use up more of the oxygen, generating a "dead zone" which can cause fish die-offs. widely vary in color, and growth of algae is unrelated to the tides. When these zones cover a large area for an extended period of time, neither fish nor plants are able to survive. The mixotrophic ciliate *Mesodinium* A harmful algal bloom (HAB), or excessive algae growth, sometimes called a red tide in marine environments, is an algal bloom that causes negative impacts to other organisms by production of natural algae-produced toxins, water deoxygenation, mechanical damage to other organisms, or by other means. Not all red tides are produced by dinoflagellates 39ff772606

Atmospheric physics In order to model weather systems, atmospheric physicists employ elements of scattering theory, wave propagation models, cloud physics, statistical mechanics and spatial statistics which are highly mathematical and related to physics. It has close links to meteorology and climatology and also covers the design and construction of instruments for studying the atmosphere and the interpretation of the data they provide, including remote sensing instruments. The tides generated are then able to propagate away from these source regions and ascend into the mesosphere and thermosphere. Atmospheric physicists attempt to model Earth's atmosphere and the atmospheres of the other planets using fluid flow equations, radiation budget, and energy transfer processes in the atmosphere (as well as how these tie into boundary systems such as the oceans). Atmospheric tides can be Within the atmospheric sciences, atmospheric physics is the application of physics to the study of the atmosphere. At the dawn of the space age and the introduction of sounding rockets, aeronomy became a subdiscipline concerning the upper layers of the atmosphere, where dissociation and ionization are important 39ff772606

Internal tide Munk (1981) notes, "Gravity waves in the ocean's interior are as common as

waves at the sea surface-perhaps even more so, for no one has ever reported an interior calm. When a small water parcel is displaced from its equilibrium position, it will return either downwards due to gravity or upwards due to buoyancy. So Internal tides are generated as the surface tides move stratified water up and down sloping topography, which produces a wave in the ocean interior. The water parcel will overshoot its original equilibrium position and this disturbance will set off an internal gravity wave. ". So internal tides are internal waves at a tidal frequency. Internal tides are generated as the surface tides move stratified water up and down sloping topography, which produces a wave in the ocean interior. The other major source of internal waves is the wind which produces internal waves near the inertial frequency 39ff772606

Crimson Tide was released by Buena Vista Pictures Distribution on May 12, 1995. The film received mostly positive reviews from critics and grossed \$157.4 million against a \$53 million budget. Hans Zimmer, who scored the film, won a Grammy Award for the main theme, which heavily uses synthesizers instead of traditional orchestral instruments. An extended cut, which incorporates seven minutes of deleted scenes, was released on DVD in 2006, while the 2008 Blu-ray release only includes the theatrical version. In a 2025 interview, Bruckheimer... 39ff772606

Tide When the Moon is at first quarter or third quarter Tides are the periodic rise and fall of sea level resulting from the differential gravitational forces exerted primarily by the Moon and the Sun, combined with inertial effects associated with the Earth-Moon system's orbital motion and the Earth's rotation. Spring tides are sometimes referred to as syzygy tides. "jump, burst forth, rise", as in a natural spring 39ff772606

From 2008 to 2011, the government Energy Efficiency and Conservation Authority is allocating \$2 million each year from a Marine Energy Deployment Fund, set up to encourage the utilisation of this resource. 39ff772606 A syzygy may, under certain conditions, result in an occultation, transit, or an eclipse. 39ff772606 It is sometimes unclear what causes specific HABs as their occurrence in some locations appears to be entirely natural, while in others they appear to be a result of human activities. In certain locations there are links to particular drivers like nutrients, but HABs have also been occurring since before humans started to affect the environment. HABs are induced by eutrophication... 39ff772606 Tides vary on timescales ranging from hours to years due to a number of factors, which determine the lunitidal interval. To make accurate records, tide gauges at fixed stations measure water level over time. Gauges ignore variations caused by waves with periods shorter than minutes. These data are compared to the reference (or datum) level usually called mean sea level. 39ff772606 The word is often used in reference to the Sun, Earth, and either the Moon or a planet, where the latter is in conjunction or opposition. Solar and lunar eclipses occur at times of syzygy, as do transits and occultations. 39ff772606

Pink tide distinct pink tides rather than a single one, with the first pink tide happening during the late 1990s and early 2000s and a second pink tide encompassing The pink tide (Spanish: marea rosa; Portuguese: onda rosa), or the turn to the left (Spanish: giro a la izquierda;

Portuguese: virada à esquerda), was a political wave and turn towards left-wing governments in Latin America throughout the 21st century. As a term, both phrases are used in political analysis in the news media and elsewhere to refer to a move toward more economically progressive or socially progressive policies in the region. They are also members of the São Paulo Forum, a conference of left-wing political parties and other organizations from the Americas. Such governments have been referred to as "left-of-centre", "left-leaning", and "radical social-democratic" 39ff772606

While tides are usually the largest source of short-term sea-level fluctuations, sea levels are also subject to change from thermal expansion, wind, and barometric pressure changes, resulting in storm surges, especially in shallow seas and near coasts... 39ff772606

Crimson Tide (film) "Crimson Tide Rolls to Blu-Ray on February 5th". It takes place during a fictional period of political turmoil in Russia, in which ultranationalists threaten to launch nuclear missiles at the United States and Japan. "'Crimson' Ends Spring Drought : Box office: The film's surprising Crimson Tide is a 1995 American submarine action thriller film directed by Tony Scott and produced by Don Simpson and Jerry Bruckheimer. Hicks: 'The Producers' arrives on DVD" 39ff772606

== Synopsis == 39ff772606 The film focuses on a clash of wills between the seasoned commanding officer of a U.S. nuclear missile submarine (Gene Hackman) and his new executive officer (or XO, played by Denzel Washington), arising from conflicting interpretations of an order to launch their missiles. The story inadvertently parallels a real incident during the Cuban Missile Crisis. 39ff772606 The Ash Wednesday Storm of 1962 coincided with a perigean spring... 39ff772606 While these astronomical forcings generate the fundamental tidal potential, actual observed tides are strongly modified by terrestrial factors, including the geometry of ocean basins, continental boundaries, bathymetry, the coriolis effect, frictional dissipation within shallow seas and the tidal resonance of coastlines. 39ff772606

Perigean spring tide Tides of maximum height and depression produced during this period are known as spring tide. 3-day elliptic orbit) coincides with a spring tide (when the Sun, the Moon, and Earth are nearly aligned every two weeks). This has a slight but measurable impact on the spring tide, usually adding no more than a couple of inches. nothing to do with the spring season). Spring tides that coincide A perigean spring tide is a tide that occurs three or four times per year when a perigee (the point nearest Earth reached by the Moon during its 27 39ff772606

The Moon's orbit around Earth is elliptical, which causes the Moon to be closer to Earth and farther away at different times. The Moon and the Sun are aligned every two weeks, which results in spring tides, which are 20% higher than normal. During the period of the new moon, the Moon and Sun are on the same side of Earth, so the high tides or bulges produced independently by each reinforce each other (and has nothing to do with the spring season). Tides of maximum height and depression produced during this period are known as spring tide. Spring tides that coincide with the moon's closest approach to Earth ("perigee") have

been called perigean spring tides and generally increase the normal tidal range by a couple of inches. 39ff772606 Continuing the story of the Pacific war, *The Conquering Tide* covers the period from June 1942 to June 1944, a time frame that starts with the fighting during the Solomon Islands, Guadalcanal, and New Guinea campaigns, continues into the Gilbert and Marshall Islands campaign and ends with the dramatic Japanese defeats during the Mariana and Palau Islands campaign and the Battle of the Philippine Sea, which sets the stage for the final phase... 39ff772606 The Latin American countries viewed as part of this ideological trend have been referred to as pink tide nations, with the term post-neoliberalism or socialism of the 21st century also being used to describe the movement. Elements of the movement have included a rejection of the Washington Consensus. At the same time, some pink tide governments, such as those of Argentina, Brazil, and Venezuela, have been varyingly characterized as being anti-American, prone to populism, as well as authoritarian, particularly... 39ff772606 The greater Cook Strait and Kaipara Harbour seem to offer the most promising sites for using underwater turbines. Two resource consents have been granted for pilot projects in Cook Strait itself and in the Tory Channel, and consent is being sought for a project sites at the entrance to the Kaipara. Other potential locations include the Manukau and Hokianga Harbours, and French Pass. The harbours produce currents up to 6 knots with tidal flows up to 100,000 cubic metres a second... 39ff772606

The Conquering Tide The first volume in the trilogy, *Pacific Crucible: War at Sea in the Pacific, 1941-1942*, was published in 2011; the final volume in the trilogy, *Twilight of the Gods: War in the Western Pacific, 1944-1945*, was published in 2020. The book is a narrative history of the middle phase of the Pacific War, which took place in the central and southern Pacific between the Allies and the Empire of Japan. It was released as an audiobook narrated by P. "Book Review: *The Conquering Tide: War in The Conquering Tide: War in the Pacific Islands, 1942-1944* is the second volume in the Pacific War trilogy written by best selling author and historian Ian W. The New York Times. Retrieved September 13, 2020. Norton & Company in 2015 (hardcover and Kindle) and 2016 (paperback). L. (Spring 2016). Toll. Ochlan by Recorded Books in 2015. It was published by W. W. Toll". J. *Conquering Tide* by Ian W. Sears, D 39ff772606

== Remote sensing == 39ff772606

Syzygy (astronomy) termed an Einstein ring. A syzygy causes the fortnightly phenomena of spring tides. At the new and full moon, the Sun and Moon are in syzygy. Their tidal In astronomy, a syzygy (SIZ-ə-jee) is a roughly straight-line configuration of three or more celestial bodies in a gravitational system 39ff772606

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