

Pub free Wings of the storm the rise of sigurd 3 (Read Only)

storm surge is an abnormal water level rise generated by a storm over and above the predicted astronomical tide storm tide is the water level rise due to the combination of storm surge and the astronomical tide intense storms and higher seas create more winds waves and floods leading to increased coastal erosion hurricanes can wash away sandy barrier islands leaving coastlines and islands unprotected from storm surge waves and winds can carry away beach sand little by little shrinking scenic beaches a storm surge is an abnormal rise of water generated by a storm over and above the predicted astronomical tides according to the national hurricane center it is caused when the force of storm surge is the abnormal rise in seawater level during a storm measured as the height of the water above the normal predicted astronomical tide the surge is caused primarily by a storm s winds pushing water onshore one of a hurricane s most deadly and destructive features according to the national hurricane center is storm surge the rise in water generated by strong winds pushing ocean water ashore as storm surge the temporary rise in sea level beneath a storm becomes dangerous when the storm typically a hurricane or other tropical storm reaches land the water is unable to escape anywhere but onto land as the storm moves toward the shore which causes flooding along the coast and other types of hurricane damage noaa defines storm surge as the abnormal rise of water generated by a storm over and above the predicted astronomical tide the tide and storm surge together can reach up to 20 feet according to the national hurricane center this map shows that many parts of mobile alabama including critical roads rail lines and pipelines would be exposed to storm surge under a scenario of a 30 inch sea level rise combined with a major hurricane storm surge is an abnormal rise of water generated by a storm over and above the predicted astronomical tide storm tide is the water level rise during a storm due to the combination of storm surge and the astronomical tide a storm surge is a rise in sea level that occurs during tropical cyclones intense storms also known as typhoons or hurricanes the storms produce strong winds that push the water into shore which can lead to flooding this makes storm surges very dangerous for coastal regions a storm surge storm flood tidal surge or storm tide is a coastal flood or tsunami like phenomenon of rising water commonly associated with low pressure weather systems such as cyclones it is measured as the rise in water level above the normal tidal level and does not include waves sea level rise since 1965 at the fort myers florida tide gauge has been about 7 6 inches 0 63 feet or about 13 3 inches 1 11 feet per 100 years sea level rise has been accelerating due to human caused climate change substantially increasing storm surge risk rates of sea level rise are increasing as ocean temperatures climb to new highs every year which will continue to increase the threat to coastal communities especially during significant storms sea level rise in the chesapeake bay will destroy the wetland habitats of many birds fish shellfish and plants human populations and structures are also at risk in many low lying areas farms and homes will have to be relocated as the bay floods the land when this buildup of water runs into land the sudden rise in sea level above normal tides is called storm surge and it is sometimes the most deadly and destructive part of a hurricane storms provide the physical conditions that enable some coastal habitats and species to sustain themselves for example storm events allow low lying barrier islands to migrate landwards helping these ecosystems keep pace with gradually rising seas how climate change is making hurricanes more dangerous stronger wind speeds more rain and worsened storm surge add up to more potential destruction major hurricanes are by far the world s costliest natural weather disasters in some cases causing well over 100 billion in damage sea level rise will create a profound shift in coastal flooding over the next 30 years by causing tide and storm surge heights to increase and reach further inland by 2050 moderate typically damaging flooding is expected to occur on average more than 10 times as often as it does today and can be intensified by local factors 4 sea level rise is making storm surge more extensive and damaging storm surge is often the most damaging aspect of hurricanes nor easters and other coastal storms surge happens when the winds generated by a storm system push surface water toward the coast over a long expanse of ocean storm surge is an abnormal rise of water generated by a storm over and above the predicted astronomical tides storm surge should not be confused with storm tide which is defined as the water level rise due to the combination of storm surge and the astronomical tide

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