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Lifting condensation level in southern california

The sea layer of clouds that affect California are low-altitude clouds that form over neighboring ocean waters. Once formed, they can be damaged by the wind over the earth's regions. Stratus-type clouds are a sheet like clouds with a near horizontal base and a tip. They usually stretch long distances horizontally (10-100s kms), but are relatively shallow in depth usually (usually 500-2000 meters). Mixing the air and the level of lifting Condensation The formation of these clouds usually begins when the wind over the water surface mixes wet surface air upwards. As the air moves upwards, it expands and cools. Cooling causes an increase in relative humidity, and once the relative humidity reaches 100%, condensation of water vapor is carried out in water drops and clouds begin to form. The depth through which the air is mixed is called a mixed layer. The altitude (or height) to be raised to form condensation is called a lifting condensation level or LCL for short. So, if the air near the surface is allowed to mix upwards to LCL, a cloud will form. Under certain conditions, the air is not mixed high enough to form clouds, this is the upper part of the mixed layer is below LCL. Until clouds form, mixing increases relative humidity near the top of the mixed layer, and the subsequent cooling of this air can increase relative humidity to 100% and begin cloud formation. The height of the LCL depends on several variables, including the water temperature and temperature and moisture content of the air above the water. The Pacific and Sinking Air Pacific is a large high pressure area that is usually located over Southern California and the neighboring ocean. Within the Pacific High, the air sinks to the surface, often at a rate of more than 1 km per day. The sinking causes the air to thicken and warm. So, over the ocean off Southern California there are two competing processes: - Mixing surface air == > leads to the air that cools - Pacific High == > leads to the sinking of the air that often warms, the net result of these two processes is the Invercius layer. Inversion layer usually, the temperature decreases when one moves up in the atmosphere. However, in the inverse layer, the temperature increases in height and forms a very stable layer that acts as a lid that keeps the air under the penetration higher into the atmosphere. As seen in the figure above, the reversal base limits the vertical degree of air mixing near the surface. This type of inversion is often called an inversion of sinking or sea inversion of air. The force of reversal is often measured by the upper and base of the inversion layer, with a greater temperature difference indicating a stronger inversion. A stronger (weaker) than normal high pressure is usually associated with stronger (weaker) than the normal inverter layer. Stronger than normal inverse layers will often lead to greater formation of a sea layer of cloud and longer time for clouds to dissipate. The force of the inversion can be modulated by climatic characteristics such as El Nino and Pacific Decadeal Oscylation (PDO). The development of the inversion layer is improved by the relatively cool ocean water outside California, which helps to increase the contrast between cold air under the layer of inversion and warm air above the inversion layer. California's current system runs from Alaska in the south to California, bringing relatively cool water from polar regions. Bringing colder deeper water along the California coast also helps keep surface waters cool. Colder than normal ocean water often leads to stronger than normal inversions, which can increase the quantity and duration of sea layers. Another type of inversion common in California is called radiation inversion. Radiation inversions are formed when the ground cools at night, which leads to an inversion that is based on the surface, that is, the temperature increases when a person moves upwards from the surface. Radiation inversions are usually strongest in the early morning hours during the winter months. Unlike podlysiad inversions, which can last for long periods of time, radiation inversion usually dissipates a few hours after sunrise. Although radiation inversions usually do not play a major role in the formation or scattering of marine layers, they (together with inversions of awning inversions) have an impact on pollution levels by inhibiting vertical mixing of air near the surface. LCL vs. inversion Base The following diagrams illustrate how the altitude of the inversion layer base can affect the formation and subsequent duration of the sea layers. For this illustration, we take on idealized conditions, that is, the air between the surface and the inversion is completely mixed. We also assume that the height of the inversion of the base and LCL is horizontally uniform. The relative location of the LCL and the reversal base determine whether sea stratus clouds will form. Case A: LCL over inversion base In this case, the inversion base prevents mixing reaching the LCL. Relative humidity does not reach 100% and no clouds will form. This situation occurs when there is very strong pressure on the region and/or very weak mixing (low winds). Case B: LCL under Inversion Base here the mixing is allowed to expand above and beyond the LCL up until you encounter Inversion Base. In this scenario, cloud forms between the LCL and the Invercius base. This situation is typical when there is moderate to strong pressure on the region and moderate to severe This is how the sea layers are formed. The base of the invercius layer limits the and therefore the peaks of the sea layers are usually very even in height. Planes flying from lindbergh field on summer mornings often travel through the sea layer shortly after takeoff. Once the plane appears through the top of the clouds, passengers experience bright sun and can see very sharply delineated top of the sea layer. Case C: No inversion layer (or Inversion Layer at very high altitude) Without an inversion layer (or if there is an inversion layer, but at a very high height far above LCL), the mixing will extend far above the LCL. With the higher level of the surface of the air can be mixed with much drier air from above. If too much dry air is mixed, the relative humidity will fall below 100% and all the clouds that form will evaporate. This is the relative location of the LCL and the base of the Inversion layer, which determine whether a sea layer of clouds will form. The most likely period of the year for the sea layers to form is from April to August. Local winds are most likely to carry sea strata over coastal areas on land in May-June. However, winds can (and do) carry sea layers of clouds over land and at other times of the year. After sea strata form clouds above the water, they can be overcrowded by the winds over coastal areas. The prevailing winds in Southern California during the summer months are usually western (air moving from west to east), which helps carry these clouds into coastal areas. Moreover, during warm summer days, a circulation of sea breezes often develops, which can increase the air flow on land, which helps to maintain a constant flow of sea stratus clouds. In the ground level of the sea layers of clouds, the horizontal degree of these clouds is limited by the hills and mountains of Southern California. On land, winds will continue to push out clouds until they encounter land that is in the same place as the clouds themselves. The hills and mountains act as a barrier to the further inner ground of these clouds. This can often lead to very low clouds and even fog (fog is defined as a cloud in contact with the ground) at the foot of the entire region. Locations with altitudes higher than the highest of the clouds can provide some amazing views of the clouds covering the low valleys to the west. Why there should be sea layers of clouds Do not form over all the large water basins For the sea layers clouds to form a strong layer for turning. One of the main ingredients for the inverse layer is the sinking air, which is found in high pressure systems. Large semi-permanent high pressure systems such as the Pacific High are only found in certain places around the world, which limits the layers of inversion to these regions. Another factor that helps inversion inversion the form of water is a relatively cold water temperature. Cold water cools the air under a flip layer, which provides a strong contrast with warmer air above the turning layers. The above map shows the sea surface temperature (SST) off the coast of the United States for a period from August 2010. For example, the southeastern coast of the US is often under Bermuda's high pressure system, but water temperatures are usually around 11c (20oF) warmer than water off California. With such warm water, it is more difficult to form an inverse layer. Marine layers often reach their maximum degree around sunrise, as this is when the air near the surface usually reaches a minimum temperature. Colder surface temperatures improve the inversion layer and make it more likely that the air below the reversal base is saturated with the corresponding humidity 100%. As the day progresses, sunlight that penetrates through the clouds will warm the surface and the air above it. Warming is greatest in terrestrial areas, as the earth heats up much faster than water. As the air warms up, it mixes upwards and will begin to mix in the clouds. This warming of cloudy air reduces relative humidity below 100% level and the cloud begins to evaporate. Strong winds over clouds can mix in drier air, which also leads to more evaporation. The thicker sea layer will dissipate more slowly as it will take longer for enough warm and/or drier air to mix and evaporate the entire cloud. Back to the main marine layer page

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