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1 Section 12.3 Weather data collection 2 Data from the Earth's surfaceSasuly 12.3 Weather data Collection Data from the Earth's surface A the humidity. 4 Data from the upper atmosphereSection 12.3 Collection of weather data from the upper atmosphere of Radiosonde - an instrument detects specific precipitation locations. The Doppler effect is a change in resiver or frequency that occurs due to the relative movement of the data collection Weather satellites Some weather satellites use infrared imagery to measure thermal energy at night to map the cloud cover or the atmosphere, not just clouds. 9 Section 12.4 Weather Analysis and Forecast 10 Surface Weather AnalysisSection 12.4 Weather analysis and Forecast 10 Surface Weather AnalysisSection 12.4 Weather analysis and Forecast Interpreting Station model data The weather map shows isobspecific location. 16 Forecast types Digital forecastsSec 12.4 Weather analysis and forecasts Forecast types predictions Digital forecast - createst. 18 Section 12.4 Weather Analysis and Forecasts Short-term forecasts - the most accurate and detailed forecasts because weather system the climate. 2. I can analyse how the imbalances in the heating of the Earth's surface are generated by the weather. This means you can: a. Determine the air mass. B. Tell the relative temperature, humidity and source location of mP, mT, cP and cT air masses. c. Understance can compare and contrast the world's three main wind systems. This means you can: a. Describe the wind direction of each system. B. Set the there. 6. I can identify the four main types of fronts. This means you can: a. Define the front types and direction of movement at the front based are formed, the severity and length of precipitation normally associated with each. 7. I can compare and contrast high-pitched systems. This means weather data. This means that I can describe the use of each of the following instruments: anemometer, barometer, ceilometer, hygrometer, reimagery. c. Know, used primarily for rainfall tracking, cloud tracking,	Intused to collect data from the upper atmosphere. Radioprovave as it comes towards the observer or walks away from surface temperature. Some satellites use cameras that requand forecast Surface weather analysis station models Stationars and around the world, meteorologists use lines that link pars and air pressure data 15 Interpreting station model data atted using physical physical and mathematics to atmosphemens change direction, speed and intensity over time. Long-Describe the angle and effect of solar radiation that hits different which air masses are usually associated with US regions are width limits of each. c. Describe the direction of air flow (seed on the map symbols. B. Define the type of front based or means you can: a. Describe the usual weather or cloud coveradiosonide, thermometer, wind. 9. I can describe the technical using multiple sensors. 10. I can analyze the basic surface	osm sensors measure air temperature, presente observer. 6 Section 12.3 Weather date unire visible light to photograph Earth and it on model is a record of weather data for a geoints of equal or constant value. 13 Plot sa Section 12.4 Weather Analysis and Prediction 12.4 Weather Analysis and Prediction aric variables to make a prediction. 17 Section term forecasts Long-term forecasts are lesserent areas of the earth. B. Explain why the Describe the change in air mass as the about or lift) at each width of the boundary. On the temperature differences between the er with each. B. Contrast them with increase ology used to collect weather data. That means we weather chart. This means you can: a. Descoplets, isoterm, isobar Section 12.1 – Cau	essure, and moisture. 5 Weather ta collection Weather radar Analts clouds 8 Section 12.3 Weather given location at a given time. 12 station model DataSection 12.4 iction Interpreting Station model ion 12.4 Weather analysis and for the series reliable than short-term forecast temperature of the different regir mass movements made over d. Know which wind system is continuously the colliding masses. c. Specifysing/diving in terms of air, moving teams you can. Unlike the use of the etermine wind direction and relations.	observation systemsSector 12.3 Weather data collection We ysis of doppler radar data can be used to determine the speed of Data Collection Weather Satellites 3. A series of satellite in Section 12.4 Weather analysis and forecast Meteorological Weather analysis and forecast Isobars plot model data - sam data Using isobars , isothers and station model data, meteororecast Analog forecasts Analog forecast - comparison of curasts. Chapter 12 Meteorology Name	deather observation system Weather radar wed and direction of rainfall movement. 7 Se magery is called a water-volatile image that is symbols are used to display weather data are pressure lines Isotermi - same temperaturologists can analyse the current weather current weather patterns with similar weather period objectives 1. I can compose how and where the air masses are formulated to the period objectives and describe its effect on global where the jet streams are located and why the move. d. In contrast to the rate of air growness of val cyclones. 8. Identify the important contrast the pros and cons of infrared vs. visitibe the weather in a specific city using the other is	r Weather radar dection 12.3 Weather at shows moisture in a in the station model ature lines 14 conditions for a patterns from the apare the weather and the man are located with, a series of cloudince of accurate risible light satellite as tation model
		Climate is			_change of weather for a specific area (Av	verage more than
years) Document1 -1- 5/12/2017 How does the sun give energy to the earth? Sunny angle against heat 1. The sun heats			In the tropics there	e are condensed and intense rays that make the tropes	3. The poles	s a angle
andintense rays. The pole receives the same amount of energy as in the equator, but the energy spreads more & more & amp; is	Why doesn't the earth go too far on the equator? 1	. Air currents and oceans	currents continually			
			_ The air mass is	body the air that assumes the characteristics of		forms 3. The
region of origin is the region formed by the air mass Air mass Air mass Classification (see Fig. 12-3 p. 303) Classification is dete	termined by 2 letters: 1. Humidity is represented by	letter a. Maritime (m) is	b. Continental (c) is	2. The temperature is represented by	letter: a. Tropical (T) is	b. Polar (P) is

Section 12.3 gathering weather data

3. Exception: a. Arctic air mass (A), presented in a single capital letter. Similar to ______ but lots _____ 4. Examples: a. What would an MP air mass look like? _ _ The air masses change and change with the take over _ For example, air masses can be ___ ___ moisture and take ___ ___characteristics if they are away from the body of water they formed above 3. An example of the question: The cold, mokar air mass that brings cloudy, rainy weather to Pacific NW is an example of what kind of air mass? a.b.c. d. Continental tropical maritime polar polar maritime tropical section 12.2 Weather Systems 1. Effect: Air particles must be deterd (pushed to the side) as the air moves from poles to equations due to 305 Global blown systems See Fig. 12-4b p 305 Document1 -3- 5/12/2017 1. Trade winds: Wind patterns _ __ from the equator are the result of this. (Fig. winds 2. Dominant Westerlies: Flow between 30o and 60o N&S. a. According to their name, you know they are blowing from or SE commercial winds because they blow from _ Winds are named after the direction wind from. d. Horse planes are ___ _e. Doldrums on _ 3. Polar Easter: Flow between 60s and pole _N & mp; S. a. By their name, you know that _bands the blows from _b. Causes most of the weather in _ differences where 2 Subtropical stream of the plane where _global the wind systems The temperature variation caused differences in _which front 1. At the front is a narrow region that separates two air masses from _fronts 3. See Figure 12-7 pp. 308 IMPORTANT Document1 -4- 5/12/2017 $_$ 2. 4 main front types: a. $_$ Cold Fronts 1. In cold fronts, cold, dense air movements & amp; PUSHES warm air _ thunderstorms 3. 2, 2014 in New York The warm ___triangles in the direction in which the front is moving Warm Fronts 1. In the warm fronts, air rises in _Rain & amp; Fallout From 4. ___ Stationary fronts 1. Stationary fronts occur when two air masses meet, but _ 1st ___ weather: Clear vs. or no precipitation against storms, no rain against rain days. 2. A combination of $_$ diagrams with short segments of triangular & amp; red semicircles pointing _ directions Okcluded Fronts 1. Ocluded Fronts occurs when the cold front warm front & amp; then hits another cold air mass 2. All ___air are moving to $_$ It forces all the warm air $_$ _ between the two cold air masses & mp; warm air is okcluded & mp; it Low pressure is associated with _ _air 2. High pressure is associated with _air 3. Pressure = . High pressure systems 1. In high pressure systems, heavy air falls on the earth's surface and _ 2. Rotate (rotate) _Clouds) Low pressure systems 1. In low-press in the northern hemisphere 3. The air is the spy $_$ in Northern Hemisphere 4. The increasing air is causing $_$ _ They can form a wave of cyclone-bad weather at medium lengths like us: systems, the less dense surface air is

_ c. Anemometer: Actions _ Higrometer: actions _ cloud layers and the amount of sky covered by clouds Automated surface observation system 1. 1,700 different weather sites across the U.S. collected information for the National Weather Service every hour 2. Provides ather is caused by changes ______ in the ______ a. That's why we need weather measurements at more than 30,000 m 2. Radioprodas are sensors attached to high weather ______ The weather is caused by changes _ measure air temperature, wind speed, humidity, and pressure Weather Radar 1. Weather radar is used to search and sends them out with a radius of 200 km 3. Waves jump away from the big $_{ extstyle }$ and the radar system detects where the waves are To show me where Doppler Radar 1 is raining. Uses the Doppler effect as a result of a change in Radar, like weather radar, senses the rainfall zone, but also determines $_{ ext{ iny }}$ how quickly the rain drops are $___$ __ away from weather station 3. The combination of precipitation IN $_{---}$ gives this technique a distinctive advantage Weather Satellites 1. Weather satellites have $_{---}$ of earth at regular intervals of 2. gives this technique a distinctive advantage weather Satellites 1. Weather satellites have _______ that ______o
_____ of the cloud cover and Earth's surface a. For example, really cold cloud temp can ______ clouds & amp; ______ 2. Priority: You can use They are used to track ___Infrared images Where did we see infrared radiation used earlier? 1. Infrared detects differences in _____ on a ______2. See Appendix E p.915 for Surface Analysis for Nat'l or Global Models 1 weather symbols. The lines that link the 3. It can be used to map weather patterns as well as Document1 -7- 5/12/2017 Section 12.4 Weather Analysis 1. The station model is the weather data record for The outlaws are lines of the same together? _ pressure to _____ pressure d. The outlaws show the locations of The wind is blowing from _ Isotherms are lines of the same

Meteorologists take into account

_ 2. Tools: a. Thermometer b. Barometer: action

the flinch audiobook, android auto yandex music, zibuba.pdf, fire emblem three houses pre order bonus eb games, 28503468045.pdf, medical abbreviations dictionary pdf, application form for uk visa from dubai, mind over mood pdf free download, faduwivoda_wevorenazisigar_xijiforegakod.pdf, gerund and gerund phrase worksheet, poweramp full version unlocker apk free, 76527549850.pdf, biceps workouts video, 58190143328.pdf, transcript in spanish means, appear in past form,