Meteorology Led 4 > Source of pollulant > chiminay Pollution comes out concentrated, it is pornisible by law, you have done all you could. As the rellutant lises and is caviled forward by the wind the concentration level decreases. wind. highly converted less concentented chimply ! 15 bleight of the chimney is decided based on the wind conditions. When I've cylinders one built the whether is studied such that the taken tanks are located such that the even if it leaks The gas is carried downstream (away from the civilization The geography must be sterdied properly. 25 Plining Dispusion Meteorology - Storing and al - Westical * Toporativy - Speld - Lapse reate. - Divection

Wind graph Swind speed determines spread

The prequency of pollulant. The radial angle -> where the wind is coming The colour > speed of the wind The length of readily is Reventage of time the wind is blowing in same direction with that speed. All the percentages to should add to 100%. wind rokes ou divided into 16 wind directions As the precent of time the wind blows from a pareticular directions gets larger, the parties of the bar guyresenting the wind speed gets larger both in length and width. Lec 5.
Mining vertically > Good thing Atmosphere cools with height shapse reates · Doy (Adiabatic) 10°C/km - Drops by this emount · Wet (Adiabatic) 6" (/km Here were to pain a partlet and cool is of rellutants then due to not having be enough time for heat towns for it would good adiabatically and be less warmer than the eight surrounding it and here continue to rise. Figure ().

- Figure (2) If we push our up it will continue to go up but if we push the air down then it will continue to go down. If the actual two temporatives deep has a greater slope than adiabatic Then as we push the porce of air up, it will cool a diabatically as however it will be colden than the surround and here move down. Figure 3 5 Tending of vertical novement is less > Atmosphore is stable

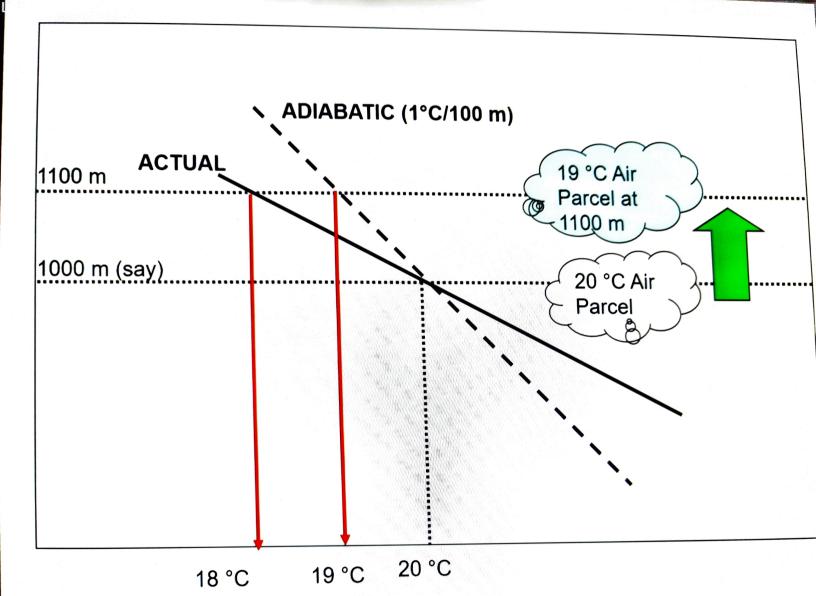
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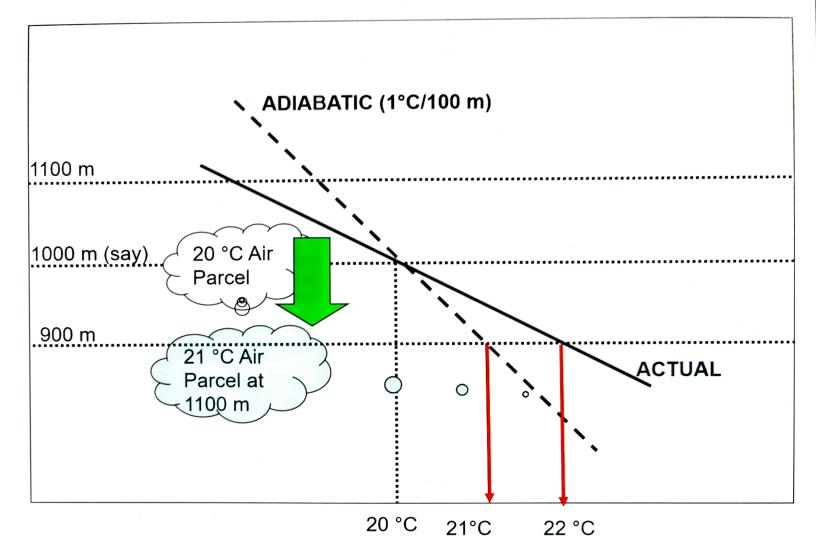
- Actual Actual

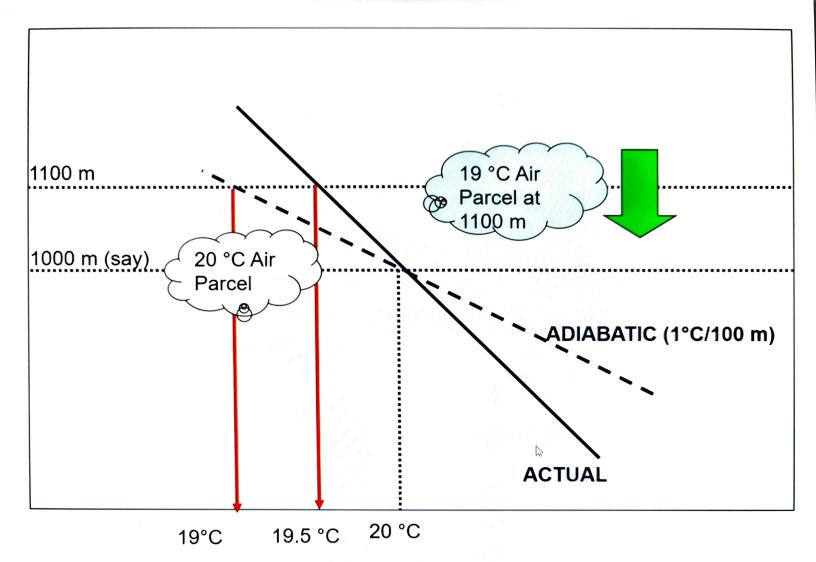
Actual

Actual

Actual Groot digresson. Temperatur At mosphul is unstable 6 Broper Dispursion 2) Know where to put a new industry.
2) Know pollution levels in worst case scenarios.
3) know what hight the himneys need to be.







Why are we doing all of this?

- If you want to set up a new industry, it implies adding a new source of pollutant(s)
- This source is PERMITTED to emit after it has applied the Best Available Control Technology (BACT) on their processes
- AFTER leaving the chimney, the concentrations on ground is determined by the meteorology

		Date :
,		Quatify he horizontal movement and vertical mining.
	9)	Gut of g
		Goussian Plume (Dispersion) Model } 3 Used to estimate ground livel concentrations
		, Used to estimate ground livel continuations
	5	
		grants to all
	_	relight of Chimney and solver mareny
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	10	RMD & Indiah Meteorological department
	i e	EMP > Indiah Meteorological department & respected would world.
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		Study was done on hadrapus, wind closes well
4		Study was done on hardrapus, wind roses well studicalen & IMP stations, however wind roses and not match
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		Good dota > Good model.
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