The atmosphere of Mars is about 95% carbon dioxide (CO₂). During the Martian 7/7 winter, temperatures at the poles on Mars drop as low as -140°C, and a large portion of the atmospheric carbon dioxide freezes to form "dry ice" at the polar ice cap. These slabs of dry ice later sublime (change phases from solid to gas) during the Martian summer, when temperatures reach 20°C, and the gaseous carbon dioxide creates winds with speeds up to 400 miles per hour. Using chemical concepts and structures, fully explain why dry ice exists naturally in the Martian climate but not on Earth. Because CO2 is not a golar molecule, the only intermolecular force attracting them to each other are Lordon dispersion forces. These forces are not strong, but when temperatures are very low such as in Mars, the molecules slow down and condense. When CO2 freezes at the low 4 emperatures in Mars, the CO's molecules attract to one another to create dry ice. V0=C=0 non polar molecule W polar bordo London dispersion 0=C=0-C 1.0.1 forces bl+ other CO2 nekeules dispersion force, not very strong. The other thand, it has a higher temperature than some other molecules; therefore Dry ice exists normally in Mars because the climate there allows CO2 to freeze. If the temperature on Earth drops as charactically and as low de it does in Mars, dry ice may exist naturally in