

with manying altitude. It can be mentical (change in wind parameter as we more from one layer of atmosphere to another) an hanifortal when mind parameter within an atmospheric clayer changes.

wind shear can have significant impact on parachely cushlayment:

i) Stuels of Panachule's Structury: Incurated wind shear in the opposite direction of rockets discut, will incurate the duap on fanachute's Canopy, leading to higher amount of stress on in it, which can hamper the structural integrity of the foreachute.

(ii) unluly wind shear is soon of the don't

the parachete, soif our section of parachet inflates

more than it'll have more offecting area, leading to ligher

obeg force, leading to generation of tangur along the

air of parachete leading to restation, an possible collabor

of the sharcher due to entargling of respect that

wind shear is a major threat to stability

(iii) Rushlem with descept water

Throny mind shar may lead to an increal in duar fance, its miny down the mocket, but this can be achieved only till a certain entend, after that the higher duar fance may lead to an increase in terminal melocity of the mocket, making the impact hander, which can be danger - out for the reschet.

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Funther if the wind shear heads to a decrease in drap it will too lead to a greater du des speed with descending cousing the same problem. This can occour near the Earth's surface. controlling the location bedoffer son ti, thoof with ment to point, sout housed to follow, thus such party the post of the post defficulty, then Sudden diagres changes in drag due tousind shear can cause impulse found on to mackette's structure, which can also lead to complete detachment of the parachute mode an to excelling stress of Structure leading to damage to the inder delicate components. Pauachute deployment timing .... A mapid change in mind parameters may lead to unfor-edictable and unstable parachute deployments Like, if it is altitude - Based deployment, then the usind shear may cause enapled change in altitude, the the actual altitude may different from puedicted altitude trus leading to premature an delayed deployment In case of time-Based deployment, wind spread can change us chit's speed substantially, making it getting democrated from the attitude which was predicted for a pourcular time, thus heading to pourchuse diployments at unintended altitudes.