## 6-7: HIGHER ALTITUDE PLANNING CHART

Goal Altitude (MSL)	Classification	License Recommended	Equipment Required							Training Recommended <sup>3</sup>	Average Freefall for 2,000 ft. AGL Opening (sec)	Time of Useful Consciousness Without Oxygen or Pressure (mm:ss)	Aircraft Required	Hypoxia Symptoms	Special Consideration
70,000	Extreme	USPA Class D	Mask	Aircraft C	nboard Oxyge	en Source	Source Bailout Oxyge		Pressure Suit		Unknown	00.09	Gas Balloon		In this region, supersonic speeds may be catained during the freefalt. The effects of transsonic and supersonic freefalt on skyl dwers and their eaglignment are not known at this time. At 83,000 feet MK, the critical pressure of your blood and body fluids is reached. Without pressuration on in the event of a failure of pressuration on or above this affitted, your blood and body fluids wit bolt.
60.000				Regulator	Set	ting Manual	Freefall Canopy Descent Descent		Full pressure required.						
			Pressure	suit helmet-in	tegrated brea	grated breathing apparatu									
50,000					ergency	Above 45M	Standard emergency "ballout battle" assembly.	No suitable "off the shelf" hardware available at this time.	Partial pressure required.		190	00:20	Turbo Jet		In the event of an includented parachular deployment of light or externes offittude, the parachulate (if conscious) should break owney from that parachulate and feefall of a lower admits of the control
45,000						45M					178	0:00			
43,000					5	43M 41M					160	0t30			
40,000 35,000		USPA Class C	Positive Pressure	Pressure breathing	100% Oxygen <sup>2</sup>		Average duration 10-12 mins.	Standard "bailout bottle"	None required	Physiological flight training course and at teast one jump from below 8500 free of bodow using ful ongan geor in freefal.		02:30	Turboprop  Ioss of  Condiciourness'  Turbocharged engina  Turbocharged e	» consciousness <sup>4</sup> » muscular control » judgment	Above 25,000 feet MSL the skydiver is subject to decompression sickness including the bends, chotas, and aromps, resulting from the nitrogen is beloostered exeming out of solution and ferming at 16th of bubbles around joints.
33,000						Safety									
30.000	High		Diluter demand	Diluter demand	On normal oxygen	Normal oxygen					140	05:00		Decompression sicknesses are avoided to a large extent by dentragenization of the bloodstream by breathing 100% awayen for at loast one hour before reaching an altitude of 25,000 feet MSI. Air temperature above 20,000 feet MSI may be expected to be below zero, year-round All stim should be protected from wind blast by clothing should be protected from wind blast by clothing the protected from wind blast by clothing the protected from wind blast by clothing the protected from the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of protection	
25,000															
20,000											120	120	Reciprocating engine	outbursts8	since exposed skin areas are subject to severe frostbite.
	Intermediate	USPA Class B with 100 jumps	Constant flow	ow flow On On required required required						Physiological flight training course				false sense of well- being	All airspace above 18,000 feet is designated as Class A airspace. Refer to FAR Part 105 for special rules governing the conduct of skydiving
15,000		Use supplemental oxygen on board above 8,000 ft. MSL until exit.											narrowing field of attention	operations in this area.	
10,000	Low	None required	Supplemental oxygen on board aircraft. Use above 10,000 ft. MSL, whenever elapsed time above 8,000 ft. MSL is expected to exceed 30 minutes.										blurring vision     overconfidence     poor memory     faulty reasoning     faticue		
8,000														drowsiness     poor judgment     headache     sluggishness	
Sea level														deterioration of night vision	

Minimum equipment listed. Equipment shown for higher altitudes satisfies all requirements for lower altitudes.

<sup>3</sup> Always rehearse axygen, communication, and exit procedures before takeoff.
<sup>4</sup> AADs are recommended as a backup system on all high-altitude jumps, due to the possibility of the skydiver being rendered unconscious by axygen

system failure.

<sup>&</sup>lt;sup>2</sup> Oxygen systems for high-atitude flights and skydwing should be filled with aviator's oxygen, not medical oxygen. Medical oxygen has a high moisture content which can cause oxygen mask valves to ice over in high-altitude operations.