

Human Physiology and Flight
Environmental Factors

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Oxygen

- o Need
- o Limitations
- o Balance
- o Hypoxia and Hyperventilation
- o Decompression Sickness
- o Entrapped Gas and Barotrauma

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Hearing

Vestibular Apparatus
Semicircular Canals
Otoliths

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Vision 1

- o Physiology of the eye
- o Visual Acuity
- o Accommodation
- o Color Vision

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Vision 2

- o Depth Perception
- o Photic Stimulation
- o Pilot's Visual Task

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Vision 3

- o Common Illusions,
- o Velocity and Height
- o The 'Whiteout' Phenomena
- o Non-visual Illusions
- o Training for Illusions
- o Acceleration

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