



1. Preparing for Mountain/Canyon Flight Low Level

Section A: Preparing the Aircraft Specific to Mountain/Canyon Flying Low Level

Section B: Preparing the Pilot

Stabilized Canyon Configuration

Turn Radius vs Airspeed

Emergency Canyon Turns

2. Navigation in Mountain and Canyon Areas

Section A: Flight Planning

Section B: Types of Drainage Navigation

Ridge Crossing, Escape Maneuvers

Descending in to Confined Drainage

Contouring Flying

3. Flying the Mountains and Canyons

Section A: Decent, Approach, and Landing

Descent

Flying the Approach

Go-Arounds

Use of Flaps

Takeoff Roll, Climb Out

4. Target Observation

Section A: Entry Path

Section B: Area Selection

Section C: Abort Strategy

5. Mountain and Canyon Meteorology

Section A: General Mountain Meteorology

Circulation and Pressure Patterns

Orographic Influence, Solar Influence

Combinations of Orographic and Thermal Influence

Wind and Waves

Section B: Canyon Meteorology

Diurnal Effect

Convergence Effect

Venturi Effect

Turbulence

6. Fire Weather and Smoke Management

Section A: Fire Weather in Complex Terrain

The effects of aspect and elevation on
humidity and temperature

Wind & Wind composition

Winds of most concern

The effects of slope inclination angle and wind on fire behavior

Fire-induced winds

Visibility Limitations

7. Density Altitude and Aircraft Performance

Section A: Determining Density Altitude (DA)

Section B: Reduction in Engine Horsepower due to DA Increase

Section C: Power Loading and Weight Reduction

Weight Reduction Needed to Gain Equivalent Power Loading at a Higher DA

Section D: Takeoff Performance

Section E: Landing Performance

Section F: Climb Performance

Section C: Abort Strategy

8. Emergencies and Forced Landings

Section A: Precautionary and Forced Landings

Precautionary Landings

Forced Landings