



## SSB WAVE CHECKOUT

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Boulder is one of the best wave sites in the country. This checkout will help familiarize the pilot with the local wave operating procedures. These checkout forms should not be considered the final word on the subject but only a brief introduction.

### 1. PREREQUISITES

- Oxygen checkout, including Fill A14 preflight and bail out bottle
- Parachute checkout and use in West wind Wave
- Radio procedures
- West wind checkout
- FAA High Altitude training Courses (online or CD)
  - Altitude Induced Decompression Sickness
  - Flying and Hypoxia
  - Hyperventilation
  - Respiration and Circulation
- The Ups and Downs of Cabin Pressurization
- Trapped Gas
- Understanding Aviation Oxygen Equipment
- Vision in Aviation
- Review of SSB Wave Window Binder and LOA with APSA
- Brief of how to open Arapahoe Peak Soaring Area

### 2. PREFLIGHT

- Clothes – danger of hypothermia and frostbite
- Forecast – winds aloft, wave info
- Wave window – boundaries
- Open with Denver Center via telephone and get comm.. frequency
- Parachute very strongly recommended
- Slack rope proficient (absorb slack and use of spoilers to prevent slack)
- Arrange tow profile and communications with tow pilot (discuss minimum altitudes to cross foothills and be conservative.)
- Radio procedures: inside 5 miles from BDU 122.725, outside 5 miles 123.3 (check with tow pilot) Denver Center as needed for APSA use.
- Aware of difference between TAS and IAS – danger of flutter
- Cloud marking (lennie, rotor)
- Wave Theory

### 3. FLIGHT

- Handling turbulence and rotor, slack rope, position, spoilers on tow
- Wave window boundaries
- PDA GPS use for window, lift dots
- Canopy care for frost ups, how to fly the wing tip if frosted, do not rub canopy clean it will frost up worse like a Zamboni hit it!
- Demo wave soaring (S turns, monitor ground position, flight parallel to wave)
- Location of secondary, primary waves (caution strong sink as well as lift, get as high as possible before trying to find primary) caution of tail winds going into rotors

- Denver center communications with transponder use
- Tell Denver when leaving window or request next altitude
- Use of down going wave to descend
- Demonstrate benign spiral descent
- Keep aware of cloud cover below for use of Benign Spiral
- Airspeed control – watch out for rotor on descent
- Prepare for strong winds on landing – plan pattern
- Discuss wind-shear situation (East on ground, West at pattern altitude)

#### **4. DEBRIEF**

- Logging and closing APSA
- Tie down, inspect
- Critique, debrief
- Sign off in logbook, or reschedule

I have received the Soaring Society of Boulder (SSB) Wave checkout as required by the SSB operating procedures. Nothing in this form relieves the pilot from the responsibility to comply with the FAR's or practice good airmanship. On checkout, please sign these forms and file in the pilots personal file in the SSB flight shack.

Pilot SS \_\_\_\_\_ Date \_\_\_\_\_

Instructor SS \_\_\_\_\_