

National Park GPS Readiness Checklist

I. Device Configuration & Standards

- **Datum Synchronization:** Ensure primary map datum is set to **NAD83** (Official Parks Canada standard) or **ITRF 2026**.
- **Coordinate Format:** Set display to **Decimal Degrees (DD.ddddd)** for 5-digit precision.
- **Satellite Constellations:** Enable multi-GNSS mode (**GPS + GLONASS + Galileo**) for deep canyon signal penetration.
- **Magnetic Declination:** Update internal digital compass to current 2026 magnetic variance for your specific park zone.

II. Data Verification (Waypoints)

- **Entry Kiosks:** Cross-reference national parks Canada GPS coordinates for the main entrance with the official 2025/2026 Infrastructure Report.
- **What3Words Backup:** Save the 3-word address for your specific trailhead as a redundant recovery point.
- **Offline Caching:** Download 1:50,000 scale NTS (National Topographic System) layers for at least a 20km radius around your target coordinates.
- **LiDAR Layer:** Check for recent (post-2024) terrain shifts in northern or coastal parks due to erosion.

III. Hardware & Power Management

- **Cold-Weather Buffer:** Charge all devices to 100% and pack an insulated power bank (expect 30% faster drain).
- **Physical Redundancy:** Print a hard copy of your target national parks Canada latitude longitude strings.
- **Satellite Sync:** Perform a test "Check-in" message via inReach/Zoleo before leaving the trailhead.
- **Port Integrity:** Verify USB-C or Bluetooth 6.0 connection for emergency data reloading in the field.