

# Ultimate Off-Grid Navigation Checklist

## *Hardware & Power*

- **Primary Device:** Smartphone or dedicated GNSS unit is 100% charged.
- **Backup Power:** 10,000 to 20,000 mAh power bank packed.
- **Cables:** Verified charging cables are packed and working.
- **Protection:** Devices are in insulated pockets or waterproof IPX7 cases.

## *Software & Data*

- **Offline Maps:** Topographic map tiles downloaded successfully (verified without Wi-Fi).
- **Waypoints:** Official Parks Canada [.gpx](#) files imported into the navigation app.
- **Settings:** Device map datum matches physical maps (WGS 84, NAD 83, or CSRS).
- **Tracking:** Direct-to-Cell SOS or dedicated PLB (e.g., Garmin inReach) is activated.

## *Physical Backups & Safety*

- **Paper Backup:** Printed NTS topographic PDFs packed in a waterproof sleeve.
- **Analog Tool:** Magnetic compass packed (declination adjusted for the specific park).
- **Communication:** Itinerary and exact trailhead coordinates shared with an emergency contact.
- **Trailhead Routine:** Figure-eight compass calibration performed at the parking lot.