

Volcanoes of the Cascade Range

You have been hired by a Reno, NV geology professor to take him and some of his students on an aerial tour of the volcanoes of the Cascade mountain range, which stretches from Northern California through Oregon and Washington into Canada. You should consider giving the professor and his students their money's worth by flying 360's around some of the more interesting peaks. Good weather is also a must in order to get a good look at the geology of the regions.

Note: This is a scenic charter and will be enhanced greatly with the add-on of high resolution mesh such as from FSGenesis (available at Avsim) and others.

From – To	Flight Description. This flight is primarily VFR. There is only 1 Nav aid at the beginning of the flight and 1 Nav aid to aid is setting up your approach to the Weed, CA airport. Good visibility is a must!				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy – 16R	Init. Hdg: 321 deg.	Init. Alt: 10,000 ft	Apt Elev: 4,4137 ft			
Reno (KRNO), Nevada To Weed (O46), California	Departure: To Fix 3. Prior to take-off, tune Nav 1 to FMG VOR, 117.90 and OBS to 284 deg. Once clear of the runway, make an immediate right turn to 321 deg. and begin your climb to 10,000 ft. Waypoint reached when OBS centers. DME will should 11.9 nm				321	14.2	00+06
	To Fix 4. Turn left to 257 deg and continue climb to 10,000 ft. Waypoint is when you reach a small runway at the West end of a shallow valley after approximately 13 min. of flying				257	25.2	00+10
	To fix 5. Turn right to 298 deg. Waypoint reached in approximately 14 minutes when you are passing a small community with a runway to the South.				298	26.5	00+10
	To fix 6. Continue on course of 298 deg. which will take you along the left side of the large lake in the distance. Waypoint reached as you pass a small airfield at the Northwest end of the lake				298	25.0	00+09
	To Fix 7. Continue on course of 298 deg. and begin climb to 11,000 ft. The peak directly in front of you is Mt. Lassen (10,457 ft) which last erupted during 1914 - 1917. Waypoint reached just before you fly over the peak.				298	18.6	00+07
	To Fix 8. Continue on course of 298 deg, descend to 10,000 ft. and tune NAV 1 to FJS VOR, 109.6. When signal picked up, fly direct towards FJS. Waypoint reached when DME reads 46.8 nm				298	36.0	00+13
	Approach: To Fix 9. Turn right to 315 deg. And begin descent to 5,500 ft. Your flight path will take you to the left of a conical mountain named Black Butte which lays just West of Mt. Shasta (14,161). Mt. Shasta's last eruption was probably in 1786. The second peak on Shasta is Mt. Shastina. When Black Butte is at your 2 o'clock, begin descent to 3,500 ft. Waypoint is reached just before a small "half-circle" lake.				315	30.7	00+12
	To Weed Airport. Just before you get to the lake adjust your course to 321 deg. You should see Weed airport directly in front of you. Land runway 32				321	7.4	00+03
Land: Weed runway 32 Length: 5,000 ft Width: 60ft Surface: Asphalt							
Flt 1066-04-01	Arrival Airport Elevation: 2,940 ft Estimated totals for this flight>>>					184nm	01+10

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From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy – 32	Init. Hdg: 338 deg	Init. Alt: 10,000 ft	Apt Elev: 2,940 ft			
Weed (O46), California To Sunriver (S21), Oregon	Departure: Before take-off, turn ADF to MOG NDB, 404.0. Upon take-off, turn right to 338 deg, begin climb to 10,000 ft. and fly direct to NDB				338	15.6	00+07
	Enroute: To Fix 2 (Mt. McLoughlin – 9,496 ft): Turn right to 355 deg. And maintain course for approximately 17 minutes. Waypoint reached when Mt. McLoughlin is on your left				355	43.6	00+17
	To Fix 3 (Crater Lake – 8,487 ft): Continue on course of 355 deg. Waypoint reached when over Crater Lake				355	30.0	00+11
	To Fix 4 (Mt. Thielesn – 9,182 ft. & Mt. Bailey – 8,363 ft): Adjust course to 357 deg. and fly for approximately 5 minutes. Mt. Thielsen is the jagged peak off your port wingtip and Mt. Bailey is on the other side of the lake to the West of Mt. Thielsen.				357	12.8	00+05
	To Fix 5 (Diamond Peak – 8,750 ft): Turn left to 340 deg. And fly for approximately 7 minutes. Diamond Peak will be on your left.				340	20.1	00+07
	To Fix 6 (Newberry Cauldera – 7,985): Turn right to 50 deg and begin your descent to 8,500 ft. Waypoint reached at the edge of the caldera which contains 2 small lakes.				050	37.0	00+14
	To Fix 7: Turn left to 315 deg. and continue your descent to 6,000 ft. Tune NAV 1 to DSD VOR, 117.6 and set the OBS to 008 deg. Waypoint reached when needle centers				315	20.0	00+08
	Approach: To Sunriver airfield: Make a standard 180 deg. right turn to 135 deg. And set OBS to 357 deg. Begin right turn to 182 deg for visual approach to airport when OBS begins to center. Land runway 18... ..				182	4.9	00+02
	Land: Sunriver runway 18 Length: 5,454 ft Width: 70ft Surface: Asphalt						
Flt 1066-04-02	Arrival Airport Elev: 4,163		Length: 5,000 ft.	Estimated totals for this flight>>>		189nm	01+12

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From – To	Flight Description. This is another mostly VFR flight, using only 1 Nav aid for the approach phase. Good visibility is a must "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	Dep. Rwy – 18	Init. Hdg: 311 deg	Init. Alt: 10,500 ft	Apt Elev: 4,163			
Sunriver (S21), Oregon To The Dalles (KDLS), Washington	Departure: To Fix 3 (Mt. Bachelor – 9,065 ft): Once clear of runway make a standard right turn to 299 deg and begin climb to 10,500 ft. Head for the saddle to the right of the large conical mountain (Mt. Bachelor). Waypoint reached when over the saddle.				299	12.9	00+05
	Enroute: To Fix 4 (Broken Hand - 9,152 ft & The Three Sisters – 10-085 ft): Turn right to 311 deg and head for the shallow saddle between North and Middle Sister. Broken hand will be on the right. Waypoint reached when just past the saddle				311	12.1	00+05
	To Fix 5 (Belknap shield – 6,874 ft): Turn right to 336 deg and fly for approximately 3 minutes. Waypoint reached when Belknap volcano is at your 10 o'clock				336	7.1	00+03
	To Fix 6 (Mt. Washington – 7,796 ft): Turn right to 352 and fly for 1 minute. Waypoint reached when Mt. Washington is on your left.				352	3.2	00+01
	To Fix 7 (3 Finger Jack – 7,841 ft): Turn left to 310 deg and fly for approximately 4 minutes. Waypoint reached when 3 Finger Jack is off your starboard wing				310	11.0	00+04
	To Fix 8 (Mt. Jefferson – 10,495 ft): Turn right to 354 deg and head towards the large conical mountain directly in front of you. Waypoint reached when you are along side the mountain				354	11.9	00+04
	To Fix 9 (Mt. Hood – 11,239 ft): - Adjust your course to pass Mt. Hood on the right. Begin descent to 1,500 approximately 6 minutes from Fix 8. Waypoint reached when Mt. Hood is off your port wing				355	35.0	00+13
	To Fix 11: Turn right to 21 deg and continue descent to 1,500 ft and slow to 120kts. Tune NAV 2 to LTJ VOR, 112.3. Waypoint reached when DME reads 7.2 nm.				021	29.4	00+12
	Approach: To KDLS: Turn right to 71 deg and maintain course until you are almost to the airport, then turn right to 126 deg and fly for 1 minute. Turn right to 160 deg for 1 minute, then turn left to 340 deg. When you can see the runway, turn left to 306 deg for visual approach. Land runway 30				Final Hdg 306	12.1	00+06
	Land: Columbia Gorge Regl runway 30 Length: 5,093 ft Width: 150ft Surface: Asphalt						
Flt 1066-04-03	Arrival Airport Elev: 246 ft			Estimated totals for this flight>>>		134nm	00+53

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From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy – 30	Init. Hdg: 306	Init. Alt: 11,000 ft	Apt Elev: 246 ft			
The Dalles (KDLC), Oregon To Yakima (KYKM), Washington	Departure: To fix 2. Following take-off maintain runway heading for approximately 2 ½ minutes or until you reach a bend in the river, then turn left to 279 deg and follow the river. Waypoint reached at an altitude of 2,200 ft				279	5.6	00+03
	Enroute: To fix 3 (Mt. Adams – 12,276 ft). Turn right to 328 deg and head for the large peak in front of you. Continue climb to 11,000 ft.				328	23.5	00+11
	To fix 4 (Mt. St. Helens – 8,364 ft – last major eruption in 1980). Just before you reach the peak, turn left to 270 degrees and head towards the flat topped mountain in front. Waypoint reached after you pass to the right of the peak.				270	36.0	00+14
	To fix 5 (Mt. Ranier – 14,410 ft). Turn right to 018 degrees and head towards the large peak in front of you. Waypoint reached after you pass to the right of the peak.				018	38.5	00+14
	To YKM VOR (116.00). Turn right to 083 degrees and turn NAV2 to 116.0. 3 mins after fix 5 start descent to 3,000ft. Fly direct to VOR				083	50.1	00+19
	To Fix 6. Maintain course of 083 and tune ADF to 371.0. Waypoint reached when DME reads 8 nm				083	8.0	00+03
	To YK NDB (371.0). Turn right to 259 degrees and fly direct to NDB.				259	5.9	00+02
	Approach: To KYKM. Turn to 271 degree for visual approach to airport. Land runway 27				271	7.0	00+03
	Land: Yakima Air Term runway 27 Length: 7,590 ft Width: 150ft Surface: Asphalt						
Flight 1066-04-04	Arrival Airport Elev: 1,095 ft		Estimated totals for this flight>>>			175nm	01+09

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From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy – 27	Init. Hdg: 350 deg	Init. Alt: 10,500 ft	Apt Elev: 1,096			
Yakima (KYKM), Washington To Vancouver (CYVR), British Columbia Canada	Departure: Prior to take-off turn NAV 2 to ELN VOR (117.90). Upon take-off maintain runway heading until clear of the runway, then turn right to 350 degrees and fly direct to the VOR				350	28.9	00+13
	Enroute: To Fix 2 (Glacier Peak – 10,541 ft). Turn left to 320 degrees and fly for approximately 51 minutes. Waypoint reached after you pass Glacier Peak on your left				320	71.8	00+27
	To Fix 3 (Mt. Baker – 10,778 ft). Turn left to 305 degrees and fly for approximately 25 minutes. Waypoint reached when you pass Mt. Baker on your right				305	46.6	00+17
	To Fix 4 (Mt. Garibaldi – 8,787 ft). Adjust course to 303 degrees and fly for approximately 43 minutes. Waypoint reached when you pass Mt. Garibaldi on your left.				303	85.0	00+32
	To Fix 5. Turn left to 182 degrees and begin descent to 4500 ft. Look left for another view of Mt. Garibaldi. Tune NAV 1 to Rwy 12 ILS, 111.10 and set OBS to 121 degrees Waypoint reached when the localizer needle centers				182	37.2	00+15
	Approach To CYVR. Turn left to 121 degrees for ILS approach to Vancouver airport or as directed by ATC ...				121	11.8	00+05
	Land: Vancouver Intl runway 12 Length: 7,289 ft Width: 200ft Surface: Asphalt						
Flight 1066-04-05	Arrival Airport Elev: 13 ft		Estimated totals for this flight>>>			282nm	01+49