Mt. Fuji Safety Brief

Yokosuka Outdoor Recreation



OVERVIEW

WHO

<u>Mandatory</u> for all Mt. Fuji program and command trip participants. Brief and certificate must be completed prior to registering at ORC. <u>Minimum age to participate is 10 years old.</u>

WHAT

Important information about risks, planning and preparation, itineraries, destination profile, rentals and registration.

WHEN

Trips run seasonally July-August. To view trip dates and availability, please visit Outdoor Recreation Trip Offerings via the myFFR portal: https://myffr.navyaims.com/yokosukarec.html

WHERE

The Outdoor Recreation Center (ORC) is located 1st FL Bldg. 48 next to Fleet Rec and USO. Open 10 am – 6 pm, Thursday – Tuesday. Holidays 10 am – 2 pm. Closed Wednesdays.



Mt. Fuji (富士山, Fuji-san)





Mt. Fuji (富士山, Fuji-san)

WORLD FAMOUS

Mt. Fuji is a World Heritage Site and Japanese cultural icon symbolizing beauty and harmony. It attracts more than 300,000 climbers each year.

ELEVATION

At 12,388 ft (3,776 m) tall, it is the highest mountain in Japan. Its crater is 820 ft deep and has a surface diameter of 1,600 ft.

VOLCANO

Mt. Fuji is an active stratovolcano. It has lain dormant since its last eruption in 1707.



DESTINATION PROFILE

TERRAIN

- ► Ascent: Pavement, rock, gravel, cinder, sand, and volcanic ash.
- ► Descent: Mostly loose gravel.

TEMPERATURE

- ► Average summit temperature: 40°F / July. 43°F / August.
 - Summit is 18-20°F cooler than 5th Station.
 - ► Summit is 36-40°F cooler than sea level.
- Typically very cold in early morning and overnight.
- ► Can drop below freezing.

WEATHER

Rapid, unpredictable, extreme changes (e.g. hail, lightning).

ALTITUDE

- Air density is 67% of sea level at peak (12,388 ft).
- Air density decreases as you climb.



TRIP OVERVIEW

DIFFICULTY

EASY MODERATE DIFFICULT VERY DIFFICULT EXTREME

From Fuji-Subaru line 5th station (7,562 ft), it is a strenuous, 10 mile round-trip hike over steep and uneven terrain, requiring occasional scrambling and use of hands for balance. On average, it takes:

- 5-8 hours to ascend
- 3-5 hours to descend

Unique environmental and risk factors contribute to difficulty level:

- High altitude
 - Decreased availability of oxygen
 - Increased rate of dehydration
- Respiratory irritants--fine volcanic dust gets kicked up by hikers.
- Early departure time makes it challenging to get proper rest.
- High risk profile and limited emergency services: self-rescue required for anything short of serious injury/illness.



TRIP SCHEDULE

DAY HIKE

\$120/person (Blue Jacket: \$80). Transportation only.

- Saturdays, July 8 & 22.
- Saturdays, August 5 & 19.

OVERNIGHT HIKE

\$220/person. Transportation/lodging only.

- July 10-11.
- July 31 August 1
- August 15-16

COMMAND HIKE

\$2,000. Bus transportation/trip leader only. To book, please contact: Junpei Onishi < <u>Junpei.Onishi.on@us.navy.mil</u>> Hiro Yoneda < <u>Hiroyuki.Yoneda2.ln@us.navy.mil</u>>

NOTES

Ages 10 and up. Meals not included. Bring sufficient yen for food, drink, restrooms. Advise bringing emergency bus/train fare. Voluntary contribution to help maintain Fuji can be made at trailhead (¥1,000/person).



DAY HIKE ITINERARY

\$120/person (Blue Jacket: \$80). Transportation only. Ages 10 and up. Saturdays: July 8, 22. August 5, 19.

01:45 Meet at Outdoor Recreation Center.

02:00 Depart Outdoor Recreation Center.

05:00 Arrive Fuji Subaru Line 5th station.

05:30 Start hiking.

13:00 STOP ASCENDING! START DESCENT WHEREVER YOU ARE!

17:00 Meet at bus.

18:00 Depart Fuji Subaru Line 5th Station.

22:00 Arrive at Outdoor Recreation Center.

NOTES

THE BUS RUNS ON SCHEDULE & WILL DEPART WITHOUT YOU. We advise bringing just-in-case money for bus/train fare. Times are approximate. Schedule may change due to traffic, weather conditions or unforeseen circumstances.



OVERNIGHT ITINERARY

\$220/person. Transportation/lodging only. Ages 10 and up. July 10-11, July 31-August 1, August 15-16.

DAY 1

04:45 Meet at Outdoor Recreation Center.

05:00 Depart Outdoor Recreation Center.

07:00 Sightsee at Sengen Shrine.

09:00 Arrive Fuji Subaru Line 5th station.

09:30 Start hiking.

17:00 Arrive at 8th Station. Stay at Fujisan Hotel.

DAY 2

02:00 Start hiking.

04:00 Arrive at summit. View sunrise.

05:30 Depart summit.

10:00 Meet at bus.

11:00 Depart Fuji Subaru Line 5th station.

15:00 Arrive at Outdoor Recreation Center.

NOTES

- THE BUS RUNS ON SCHEDULE AND WILL DEPART WITHOUT YOU. We advise bringing just-in-case money for bus/train fare.
- Times are approximate. Schedule may change due to traffic, weather conditions or unforeseen circumstances.
- Lodging is at the Fujisan Hotel mountain hut (Tel: 0555-24-6512) located at the 8th Station. Meals are at your own expense (1,000-2,000 Yen).



FACILITIES/AMENITIES

PAYMENT

Most facilities accept cash Yen only, especially the mountain huts. Services become more expensive and limited the higher you go.

FUJI SUBARU-LINE 5th STATION

Full service area with a few restaurants and shops offering snacks, drinks, bottled water, and souvenirs. Restrooms are last free ones before mountain huts. Limited running water--none at mountain huts.

MOUNTAIN HUTS

Located on <u>ascending trail only</u>, they offer basic snacks, drinks, bottled water, and pay-per-use (¥300) eco-toilets (toilet paper availability intermittent). Only paying customers may rest inside (exception for emergencies). Only facility on descending trail is restroom at 7th station.

WASTE

Pack it in, pack it out.

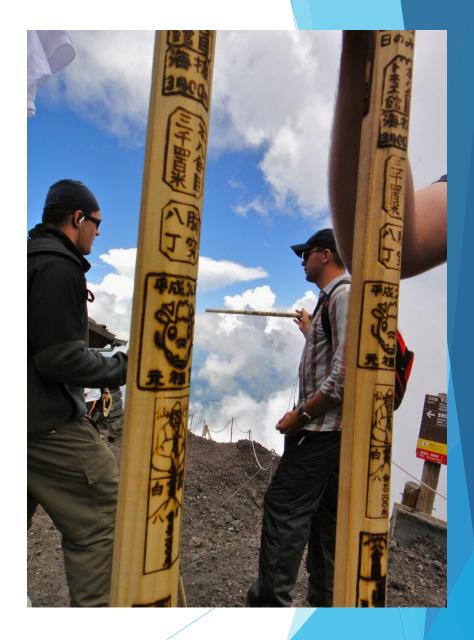
CELL/WIFI

Limited cell service and pay-for-use WiFi is available on the mountain.

FUJI STICK

Available at Fuji-Subaru Line 5th Station for ¥1,500. Costs about ¥5,000 to collect stamps from all mountain huts.





FUJISAN HOTEL



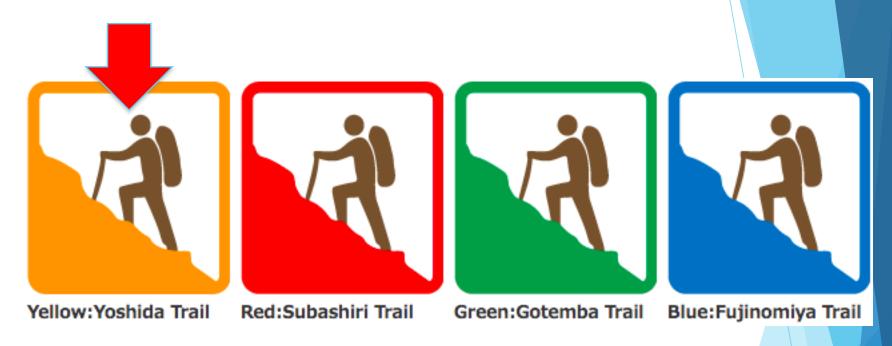


The Fujisan Hotel offers amenities such as hot food, restrooms, and sleeping quarters, however, services are limited and not comparable to a traditional hotel, e.g., no showers. For more info:

www.yamanashi-kankou.jp/foreign/english/stay/p_8139.html



ROUTE>YOSHIDA TRAIL



There are four color-coded trails that lead to the summit of Mt. Fuji.

ALL YOKOSUKA OUTDOOR REC TRIPS FOLLOW THE YOSHIDA TRAIL.

The Yoshida Trail starts at Fuji-Subaru Line 5th Station and leads to the summit on the north side of Mt. Fuji in Yamanashi Prefecture.



YOSHIDA TRAIL NOTES

- Most people who climb Mt. Fuji use the Yoshida Trail.
- The ascending trail is different than the descending trail. The descending trail merges back into the ascending trail at the 6th station.
- There are many mountain huts on the ascending route. On the descending route, there are no mountain huts after the Yoshida Trail/Subashiri Trail junction.



HOW TO GET LOST: TIP #1

MULTIPLE 5th STATIONS

A great way to get lost is by failing to note that there are **multiple** 5th **stations**, one for each of the 4 different trails that lead to the summit. All Yokosuka Outdoor Rec trips begin and end at the **Fuji-Subaru line** 5th **station**.

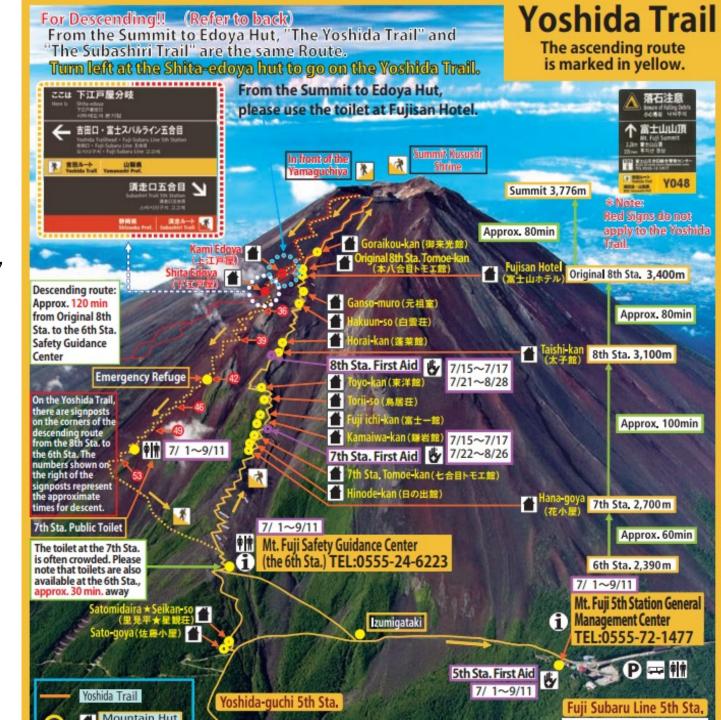


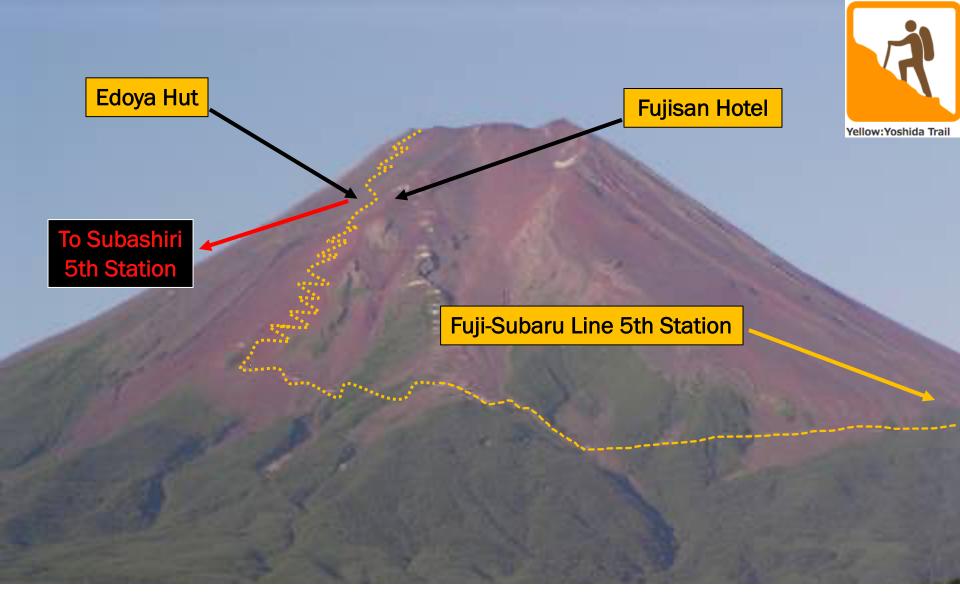


YOSHIDA TRAIL MAP

For a higher resolution, detailed version of the Yoshida Trail Map, please visit:

https://goo.gl/xGuWPJ





YOSHIDA TRAIL KEY POINTS





Fuji-Subaru Line 5th Station





Fuji-Subaru Line 5th Station & Yoshida Trailhead MORALE, WELFARE AND RECREATION





Yoshida Trailhead





Izumigataki: Midpoint 5th-6th Stations





6th Station: Safety Guidance Center





6th Station: Uphill View





YOSHIDA TRAIL WALK-THROUGH Typical Bottleneck





7th Station: View to Summit Ridge





8th Station





8.5 Station





YOSHIDA TRAIL WALK-THROUGH Summit Approach





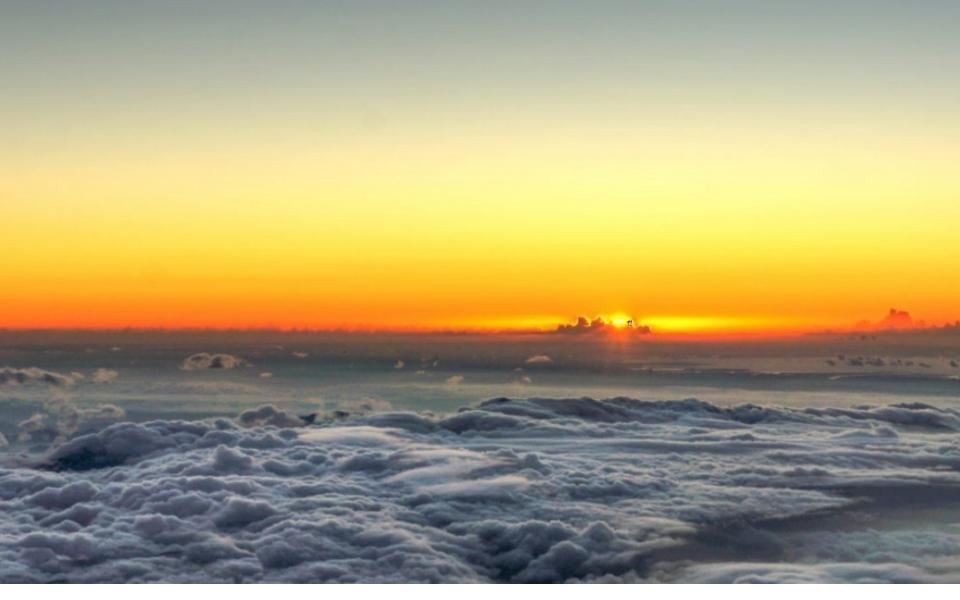
Summit Layout





Summit Crater





Summit Sunrise















HOW TO GET LOST: TIP #2

YOSHIDA TRAIL / SUBASHIRI TRAIL JUNCTION

- The best way to get lost and miss the bus is by failing to go right at the Yoshida Trail/Subashiri Trail junction which occurs at Shita-Edoya Hut. Go left!
- There are many switchbacks on the descending path and people are often tired from the ascent--it's easy to zone out and miss the junction. Be sure to look up periodically and check for signage. Trip leaders may be posted at the junction to guide you but not always.
- It's easy to get mixed up with groups from other bases who may be following a different trail. If you decided to follow someone, double check that they are in your group and headed to the correct destination via the correct trail.





7th Station Restroom





YOSHIDA TRAIL WALK-THROUGH

6th Station: Descent/Ascent Trails Merge





YOSHIDA TRAIL WALK-THROUGH

Finish! Fuji-Subaru Line 5th Station



ASCENDING

PACE: Move at a slow and steady pace. It's more energy efficient and safer than moving in quick bursts; it's a marathon not a race. Many people start out too fast and fizzle out early.

BREAKS: Take frequent, short rests but don't rest too long. If you rest too long your muscles will cool down, and it will be tough to get going again. Use breaks to maximum effect: drink water, eat light snacks, reapply sunscreen, adjust gear as needed.

HYDRATION/NUTRITION: Staying hydrated and fed is critical to avoiding illness/injury. Altitude combined with intense exertion dramatically increases calorie burn and fluid loss. Water and light, nutritionally-balanced snacks work best.

SPACING: Yoshida Trail is often very crowded in the summer. If possible, allow a little spacing between yourself and the next hiker to minimize potential trips/falls/collisions.



SUMMITTING

- ▶ 11:00 If you have not made it to the Fujisan hotel (original 8th station) by this time, immediately begin descending on Day Hike! If you do not start descending right away there is a high probability you will not make it back to the bus on time.
- 13:00 Regardless of where you are at this time, immediately begin descending on Day Hike! If you have not made it to the summit well before 13:00 and you do not start descending right away, there is a high probability you will not make it back to the bus on time.
- If you reach the summit, it's a good opportunity to recuperate, eat, drink water, and reapply sunscreen.
- If time permits, you may walk around the crater. It takes approximately 1.5 hours.
- ▶ Give yourself ample time to descend, i.e., don't wait until 13:00.
- The descent trail begins behind the summit bathroom.



DESCENDING

- Start descending by 13:00 on Day Hike.
- Injuries typically occur during the descent because people are exhausted from climbing. **DO NOT RUN!!!**
- Tighten your boots for extra ankle support.
- Hiking poles come in handy for this portion.
- If you are having trouble, please contact your trip leader.
- The bus runs according to schedule. We advise bringing just-in-case yen for bus/train fare (approximately 7,000 yen).
- If all participants return early may depart early.

AND REMEMBER.....





<<GO LEFT AT EDOYA HUT!<<<



RISKS

Navy Morale, Welfare and Recreation (MWR) CFAY, and its staff have done everything possible to assure that our patrons enjoy a rewarding experience. We wish to inform you that:

Hiking/climbing/mountaineering is not risk free

The same elements that contribute to the unique character and fun of hiking/climbing/mountaineering, such as physical exertion or height, can cause loss or damage to equipment, injury, illness, or in extreme cases, permanent trauma or death.

Information provided in this presentation is for informational purposes only and does not take your individual situation into account. Please consult with your physician or other health care professional regarding any medical or health related issue.



THE MOUNTAIN DOESN'T CARE

About your goals, your feelings, or your life. It just is—brutal and beautiful—which is both alluring and terrifying because...

YOU ARE RESPONSIBLE

For your well-being, for planning ahead and preparing, for knowing the route, for using sound judgement, for monitoring all minors and guests in your party so...

KNOW YOUR LIMITS

The underlying cause of most incidents is not knowing and not respecting one's limitations. Minor issues have a tendency of quickly escalating into major ones in this environment. Think and act conservatively. First things first...

SET REALISTIC GOALS

Change your mindset from "Gotta make it to X," to "Let's see what the mountain has in store." Focusing myopically on the summit blinds you to risks and means you're likely missing out on all the other great aspects of the trip, so remember...

THERE ARE ALTENATIVES

Shhh!!! It's kind of a secret...Fuji is great and all but some of our best hiking trips are actually easier, smaller excursions to lesser known locations. You can check them out at the myFFR portal.



INCIDENT STATISTICS

2011-2020 STUDY

- >774 (186 occurred off hiking season) incidents reported
- ▶81 (60 occurred off hiking season) deaths mostly attributable to cardiac events and acute mountain sickness.
- The majority of nonfatal incidents occurred during descent and most involved tripping. More than half of all incidents were reported at the 8th step (approximately 3000 m).



INCIDENTS (cont.)

Incidents on MWR Mt. Fuji Trips					
YEAR	# of people	Minor Evac	Major Evac		
2005	1115	10	1		
2006	1521	7	2		
2007	1193	9	0		
2008	1385	8	1		
2009	1458	7	2		
2010	1108	1	1		
2011	1377	2	1		
2012	1592	2	0		
2013	2348	3	1		

MINOR INCIDENTS

- ▶ Fatigue
- ► Ankle/knee injuries
- ► Minor sprains/strains
- ► Cuts/swelling/bleeding from falls

MAJOR INCIDENTS

- ► Altitude Sickness
- Sickle cell (life threatening)
- ▶ Broken bones



RISK & RESPONSE

- Decreased availability of oxygen
- ► Participate in approved fitness regimen 1-3 months prior.
- Move slow and take frequent breaks to acclimatize.
- Increased susceptibility to dehydration
- Ensure proper hydration/nutrition is received before and during trip.
- Avoid diuretics (flushing agents) such as alcohol and coffee.
- Increased exposure to UV rays
- ► Cover exposed skin with clothing/sunscreen. Wear sunglasses.
- Extreme temperatures. Rapid-changing, unpredictable weather.
- ▶ Bring appropriate layers: non-cotton synthetics, wool, thermal top and bottom, rain jacket and pants. Rental gear is available at ORC.
- ► Seek shelter at nearest mountain hut in case of lightning.
- Falling rock
- ➤ Stay alert to activity above you. Be prepared to evade falling debris. Protect your head and neck. Shelter against cliff side if feasible.



RISK & RESPONSE (cont.)

- Steep, uneven, unstable terrain with potentially slippery sections
- ► STAY ON designated trail—marked by signage/ropes/artificial features.
- ► Practice balance and mobility exercises prior to trip.
- Be aware of your surroundings. Exercise great caution near cliffs.
- Use your hands/trekking poles to balance yourself as needed.
- Geologically active--small but nonzero risk of volcanic activity.
- ► Though not commonplace, the Japanese government recommends bringing helmet, dust mask, and dust googles.
- Exposure to respiratory irritants, e.g., fine volcanic ash and sand
- Wear dust mask or bandana.
- Early departure/travel time makes it challenging to get proper rest.
- ► Try getting to bed earlier in the days leading up to the trip.
- Limited emergency services; self-rescue required for anything short of serious illness/injury.
- Travel with a responsible group. Think and act conservatively.



ALTITUDE SICKNESS

- Altitude Sickness is caused by decreased oxygen at higher elevations
- Symptoms include headache, nausea, vomiting, dizziness, shortness of breath, fatigue, and decreased appetite.
- If symptoms worsen, please consider descending, drinking water, taking supplemental oxygen and resting.
- Everyone is susceptible to altitude sickness, even if you are fit and have been at altitude before without issues.
- Ways to minimize/prevent altitude sickness include getting adequate hydration, ascending slowly, avoiding tobacco, alcohol, and other medications such as sleeping pills.



SICKLE CELL

SICKLE CELL TRAIT

An inherited blood disorder. Individuals with sickle cell trait carry one normal and one abnormal gene related to the production of the oxygen-carrying protein, hemoglobin. People with sickle cell trait rarely have symptoms and often live normal lives.

RISK FACTORS

Sickle cell trait is more common in certain ethnic groups:

- African Americans (8-10 percent have sickle cell trait)
- Hispanics
- South Asians
- Caucasians from southern Europe
- People from Middle Eastern countries

TESTING

A simple blood test administered by your doctor can determine whether you are positive or negative for sickle cell trait.



SICKLE CELL (cont.)

HIGH ALTITUDE PARTICIPATION

Due to the lack of oxygen in high altitudes, individuals with sickle cell trait take a higher risk when participating in this environment. Splenic infarction can occur in individuals with sickle cell trait, particularly at high altitudes. Splenic infarction is tissue death in the spleen caused by a lack of oxygen to this vital organ. Vigorous exercise at altitudes higher than 5,000 feet may increase risk. Splenic infarction causes sudden and sometimes severe pain in the left side of the chest and abdomen. You may experience nausea and vomiting as well.

RECOMMENDATION

If you are positive for sickle cell trait or disease, even if you have never been ill from it, the medical staff at the USNH recommend that you <u>DO NOT</u> climb Mt. Fuji. A doctor's note is required if you wish to participate.



MEDICAL

PERSONAL HEALTH

If you have any questions or doubts about your ability to participate, please consult your physician or other health care professional.



PREPARATION

1-3 months prior

Get Fit: Training for Hiking (please consult your doctor beforehand) https://www.rei.com/learn/expert-advice/hiking-training.html

24-48 hours prior

- Limit caffeine and alcohol.
- Get adequate sleep (≥ 8 hours)
- Be packed and ready to go. Lighter is better--without sacrificing essential gear.



PACKING LIST

EXPERT TIP

Gear recommendations are based on our trip programmers' extensive outdoor knowledge and personal experience on hundreds of Fuji trips. Failure to bring appropriate gear can not only suck the fun factor out of any trip--it could endanger yourself and others.

MT. FUJI PACKING LIST

- *Sturdy mid/high-cut hiking boots (required)
- *Rain jacket and pants (required)
- *Headlamp (required on overnight. Highly recommended just-in-case item for day trip)
- *Gaiters
- > *20-30 L pack
- *Trekking poles
- Clothing Layers:

Non-cotton (NO jeans), synthetic/wool materials only

- Base layer that wicks away perspiration
- Mid layer that insulates from cold
- Head: hat with visor / insulating beanie
- Face: Bandana/dust mask
- Hands: insulating gloves
- Feet: well-fitting socks
- Extra clothes and shoes to change into
 - Bus driver will not allow dirty equipment on bus.

- Water (1+ liter). Can also purchase more at mountain huts to reduce pack weight.
- Food: Ample light, nutritious snacks.
- Sunglasses
- Sunscreen
- First aid items
 - Necessary personal medications
 - Pain reliever (e.g. ibuprofen, aspirin)
- Plastic bags for trash
- Ziploc/waterproof bags to keep items dry
- Small towel/wipes/toilet paper
- Cell Phone
- Yen (Minimum ¥10,000. Recommend ¥20,000)
 - Extra food and drinks
 - Just-in-case bus/train fare (¥7,000)
 - Restrooms (¥300 per use)
 - Fuji stick (¥1,500)
 - All stamps (¥5,000)



*Available for rent at Outdoor Recreation Center.

DRESS FOR SUCCESS

FIT

Clothing and shoes should be a comfortable fit. Too loose can become a tripping and entanglement hazard. Too tight can impair blood flow and thermal regulation. Boot size should be about half size bigger than you normally wear in tennis shoe.

LAYERING

Layering is a three-part system that includes a base layer that wicks perspiration away from your skin, a mid layer that insulates you from the cold and a shell layer that keeps wind and moisture out. The goal is to add and remove layers throughout your hike so you can stay warm and comfortable without overheating and getting sweaty. It can be a chore to stop and change clothes, but it's really important to stay dry. Getting wet on a cold day can possibly lead to hypothermia.

NO COTTON/DENIM/JEANS

When cotton gets wet, it takes a long time to dry. Being wet is not only miserable, it's dangerous and can lead to conditions such as hypothermia and blisters. Synthetic and wool layers dry much faster and move perspiration away from skin.

SUN PROTECTION

UV exposure increases with altitude making it easier to get sunburned. Even on cloudy days it's critical to protect skin and eyes.



Hiking Boots



Sandals







Rain Jacket



Rain Pants





Insulating Top



Fleece/Wool/Synth.



Canvas/Cotton





Wicking Base Layer



Pants



Athletic Shorts





Hat w/cord



Sunglasses



Sunblock







Non-cotton Socks



Gloves







Headlamp

Gaiters

Trekking Poles

20-30 L Pack w/hipbelt





Wipes/Tissues





Waterproof Bag Trash Bag







Bandana

First Aid Items







Water 1+ Liter



Snacks



Yen





RENTAL ITEMS

AVAILABLE AT THE OUTDOOR RECREATION CENTER

Boots (waterproof)	\$6
Rain Jacket	\$5
Rain Pants	\$5
Pack – Large	\$6
Pack - Small	\$2
Gaiters	\$2
Trekking Pole	\$5

RENTAL RATE

Prices are first day rate only; additional days are half price. Equipment may be returned upon arriving back at ORC or day after at no extra charge.

CHECKOUT

Advance reservation is unavailable. Rentals are first come, first served. Gear must be rented before trip start date. **NO RENTALS allowed day of.**

RETURNS

Equipment must be returned on time, in clean and serviceable condition, save normal wear and tear. If not, an additional fee will be assessed.



QUESTIONS?

If you have additional questions or concerns, please contact Outdoor Recreation Center at DSN 243-5732 or Commercial phone 046-816-5732.

CERTIFICATE OF COMPLETION Mt. Fuji Safety Brief

My signature below certifies that I have fully read, understood, and agreed to the policies contained herein. Further, I accept responsibility for ensuring any guests or minors in my party fully understand and adhere to these policies. I understand my participation is voluntary and may be withdrawn at any time (please refer to rental agreement for refund policy).

PARTICIPANT (18 & Older)	DATE	
SIGNATURE	-	

Must be completed by all participating adults and presented at registration time.

RESOURCES

Yokosuka Outdoor Recreation Trip Info

https://myffr.navyaims.com/yokosukarec.html

Mt. Fuji Comprehensive Guide

http://www.fujisan-climb.jp/en/

Fuji Mountain Guides

https://www.fujimountainguides.com/climbing-mt-fuji.html

U.S. Embassy Safety Precaution: Climbing Mount Fuji

https://jp.usembassy.gov/u-s-citizen-services/local-resources-of-u-s-citizens/emergency-assistance/safety-precaution-climbing-mount-fuji/

Fujisan Hotel

https://www.yamanashi-kankou.jp/foreign/english/stay/p_8139.html