Makalu Expedition Required Equipment

BASE	LAYERS
	Synthetic Short Underwear (2-3 pair) non-cotton style underwear recommended: Patagonia Men's Capilene Daily Boxer Brief
	Lightweight Long Underwear (2-3 pair) long sleeve shirt and long pants recommended: Mountain Hardwear Ghee Long Sleeve 1/2 Zip top, Ghee Tight bottoms
	Heavyweight Long Underwear (1 pair) recommended: Mountain Hardwear Diamond Peak 1/2 Zip top, Diamond Peak Thermal Tight bottoms
	Short Sleeve Synthetic Shirt (1-2 pair) recommended: Mountain Hardwear Diamond Peak Short Sleeve T-Shirt
MID L	_AYERS
	Soft Shell Jacket to be worn over other layers recommended: Mountain Hardwear Stretch Ozonic Jacket
	Soft Shell Pants very breathable and water repellant recommended: Mountain Hardwear Stretch Ozonic Pant
	Lightweight Nylon Pants (1-2 pair) recommended: Mountain Hardwear Chockstone/2 Pant
WIND	PROOF/RAIN LAYERS
	Hard Shell Jacket with hood waterproof and breathable shell jacket recommended: Mountain Hardwear Exposure/2 Gore-Tex 3L Active Jacket
	Hard Shell Pants waterproof and breathable shell pants recommended: Mountain Hardware Exposure/2 Gore-Tex Active Pant
INSUL	ATION LAYERS
	Heavyweight Insulated Down Jacket with hood we primarily wear this when climbing below Camp 2 recommended: Mountain Hardwear Absolute Zero Parka or Nilas Jacket
	Insulated Pants worn primarily when climbing below Camp 2 recommended: Mountain Hardwear Compressor Pant
	Down Suit worn when climbing above Camp 2 recommended: Mountain Hardwear Absolute Zero Suit
HEAD	WEAR
	Warm Hat synthetic or wool hat (ski hat) recommended: Mountain Hardwear Dome Perignon Pro



	Balaclava
Ш	to protect your neck and face in high winds
	recommended: Mountain Hardwear Alpine Balaclava
	Baseball Cap or other sun hat to shade your face/neck from the sun on a hot day
	recommended: Madison Mountaineering Cap
	Bandana or Buff
	to protect your neck/face from the sun
	recommended: BUFF UV Multifunctional Headwear
EYEW	EAR
$\overline{}$	Glacier Glasses
	full protection with side covers or wrap around
	recommended: Julbo Shield Sunglasses
	Ski Goggles
	to be worn on summit day in the event of high winds – (2 nd pair optional)
	recommended: Scott USA LCG Goggle
GLOV	ES CONTRACTOR OF THE CONTRACTO
	Lightweight Synthetic Base Layer Gloves
Ш	for wearing on a hot day
	recommended: Mountain Hardwear Power Stretch Stimulus Glove
	Soft Shell Gloves
Ш	to wear for moderate cold/wind
	recommended: Mountain Hardwear Route Setter Alpine Work Glove
	Shell Glove with Insulated Liner to wear for severe cold/strong wind
	recommended: Mountain Hardwear Exposure/2 Gore-Tex Glove
	Expedition Mitts
	large enough to fit a liner glove inside
ш	recommended: Mountain Hardwear Absolute Zero Gore-Tex Down Mitt
_	Heated Gloves (optional)
	Battery-powered heated gloves
	recommended: Outdoor Research Capstone Heated Gloves
FOOT	WEAR
	Liner Socks (3 pairs)
	recommended: Spyder Pro Liner Sock
	Wool or Synthetic Socks (6 pairs)
ш	recommended: Smartwool Mountaineering Extra Heavy Crew Sock
	Heated Cooks (antique)
	Heated Socks (optional)
	recommended: Lenz 4.0 Heat Socks
	Mountaineering Boots
Ш	recommended: La Sportiva Olympus Mons Evo
	Hiking Boots/Shoes
	comfortable boots or shoes for the trek to base camp



	Camp Boots comfortable boots for wearing in camp recommended: Sorel Caribou Boot
	Gaiters (optional) recommended: Outdoor Research Expedition Crocodile Gaiters
	Booties (optional) recommended: Feathered Friends Down Booties
SLEEP	ING EQUIPMENT
	Sleeping Bag (for high camps) rated to at least -40°F. Goose down or synthetic recommended: Mountain Hardwear Phantom Gore-Tex -40 Sleeping Bag
	Sleeping Bag (for base camp) rated to at least -20°F recommended: Mountain Hardwear Lamina -30 Sleeping Bag
	Self-inflating Sleeping Pads (2) full length is preferred, 1 for base camp and 1 for high camps recommended: Therm-a-Rest NeoAir XTherm
	Closed-cell Foam Pad to be used in conjunction with the inflating pad for warmth and comfort when sleeping recommended: Therm-a-Rest RidgeRest SOLite
	Farplugs recommended: Eagle Creek Travel Ear Plug Set
Mou	NTAINEERING GEAR
Mou	Expedition Backpack approximately 105L recommended: Mountain Hardwear AMG 105 Backpack
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recommended: Petzl Sarken Leverlock Crampon

	Climbing Helmet must be able to fit over your warm hat recommended: Petzl Sirocco Helmet
	Ascender 1 right or left-hand ascender recommended: Petzl Ascension Ergonomic Ascender
	"Y" Rig for ascender and safety carabiner recommend: Petzl Dual Connect Adjust
	Accessory Cord 30 feet (9m) of 6mm accessory cord recommended: New England 6mm Accessory Cord
	Alpine Climbing Harness mountaineering harness, with adjustable leg loops. Not a rock-climbing "sport" harness recommended: Petzl Altitude
	Carabineers 3 regular and 3 locking recommended: Black Diamond Oval (regular) and Black Diamond Positron Screwgate (locking)
	Belay/Rappel Device recommended: Black Diamond Super 8 Belay/Rappel Device
	Headlamp with 2 extra sets of new batteries recommended: Petzl Tactikka Core Headlamp
TRAV	EL İTEMS
	Large Duffel Bags with Locks (2) for transporting gear recommended: The North Face Base Camp Duffel
	Carry-on Backpack can use trekking backpack, approximately 18" x 16" x 10" (46cm x 41cm x 26cm)
	Travel Clothes for days in cities and towns
	Lightweight journal, sketchbook, pencils, pen
	U.S. cash for currency exchange to purchase SIM cards or merchandise in cities and villages
ADDI"	FIONAL FOOD ITEMS
	Snack Food bring a few days' supply of your favorite climbing snack food such as bars, gels, nuts, beef jerky, etc. variety of salty and sweet is good recommended: GU Roctane Energy Gel
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Bowl large plastic bowl for eating dinner or breakfast
Spoon plastic spoon (Lexan)
Water Bottles (2 or 3) wide mouth bottles with 1-liter capacity recommended: Nalgene 1L bottle
Water Bottle Parkas (2) fully insulated with zip opening recommended: Outdoor Research Water Bottle Parka #1
Water Treatment (optional) recommended: SteriPEN Ultra, Aquamira, tablets, etc.
Thermos 1 liter recommended: Hydro Flask 32oz Wide Mouth Insulated Bottle
Heated Insoles (optional) recommended: Hotronic Custom S4 Heating Elements Foot Warmer Kit
Hand Warmers recommended: Yaktrax Hand Warmer
Sunscreen SPF 50 or better
Lip Screen (2 sticks) SPF 30 or better
Toiletry Bag include toilet paper and hand sanitizer
Pee Bottle 1-liter minimum bottle for convenience at night in the tent
Female Urination Device (FUD) recommended: Sani-Fem Freshette
Knife or Multi-tool (optional)
Small Personal First-aid Kit include athletic tape, band-aids, Ibuprofen, blister care, cough drops, etc.
Medications and Prescriptions bring antibiotics (Azithromycin, etc.), and altitude medicine such as Diamox and dexamethasone
Handkerchiefs/Bandanas (optional)

OPTIONAL ELECTRONICS



Country-appropriate power plug adapters and power transformers
Avalanche Transceiver recommended: Backcountry Access Tracker 2 Avalanche Beacon
Adventure Sports Watch recommended: Garmin fēnix 6
GPS/Personal Satellite Communicator recommended: Garmin inReach Mini
Personal Power System recommended: Goal Zero Nomad 28 Plus Solar Panel and Sherpa 100AC Power Bank
Digital Entertainment movies, tv shows, music, books loaded on to smartphone, iPad, Kindle
Camera bring extra batteries, charger, and memory cards
Portable Travel Humidifier battery powered

