

Norwegian Alpine Rescue Groups



Big wall rescue procedures with helicopter





- film

Sea King helicopter



- AUW 21400lbs/9600kg
- Crew of 6, including docor
- Dual hoist (hydraulic)
- Hoist cable length 245 feet
- Coms
- EO/IR camera



Considerations



- Procedure development
- Mountaneous hoisting
 - Wind
 - Turbulence
 - Settlig with power/vortex ring state
 - Big wall proximity (stress)
 - Workload
 - Safety (escape)

Longline



- Is an extension to the hoist cable
- Helicopter has to descend along the wall – risk of settling with power
- Longline is used as a long guideline to pull the hoist cable to the extraction point
- Longline is used to control the load during hoisting

Superlongline



- Is an extension to the hoist cable
- Helicopter does not have to descend along the wall
- Reduces hover time near the wall
- This procedure accepts very long ropes
- Rope and load can be hoisted into the helicopter

Superlongline vs. Longline

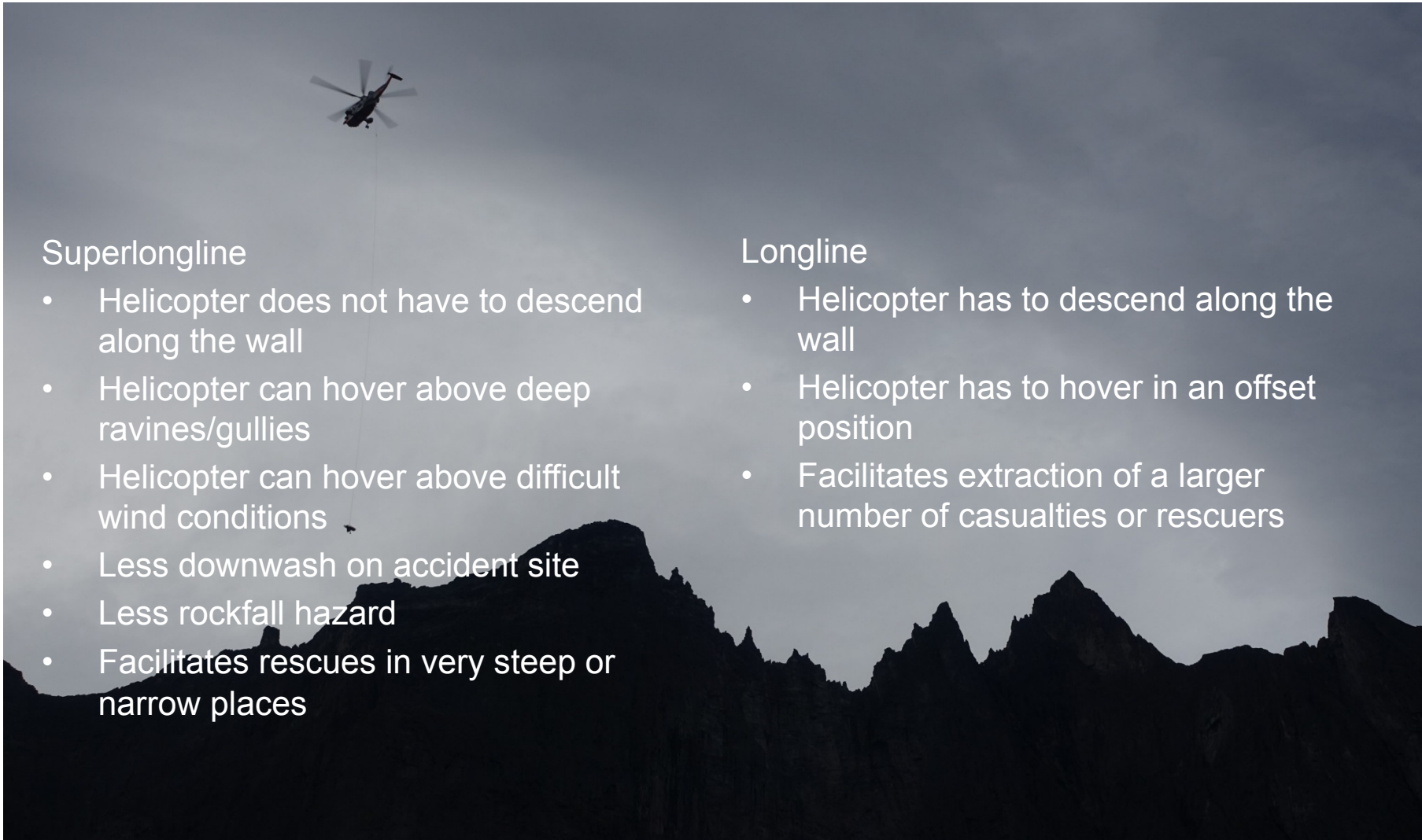


Superlongline

- Helicopter does not have to descend along the wall
- Helicopter can hover above deep ravines/gullies
- Helicopter can hover above difficult wind conditions
- Less downwash on accident site
- Less rockfall hazard
- Facilitates rescues in very steep or narrow places

Longline

- Helicopter has to descend along the wall
- Helicopter has to hover in an offset position
- Facilitates extraction of a larger number of casualties or rescuers



Access to the victim



Rescuers will gain access to the casualty by lowering or by rappel

A third, untensioned rope will be layed out between the upper belay and the accident site

This rope will be used as a «superlongline»



The procedure:



Superlongline ready for pick up



Upper belay point

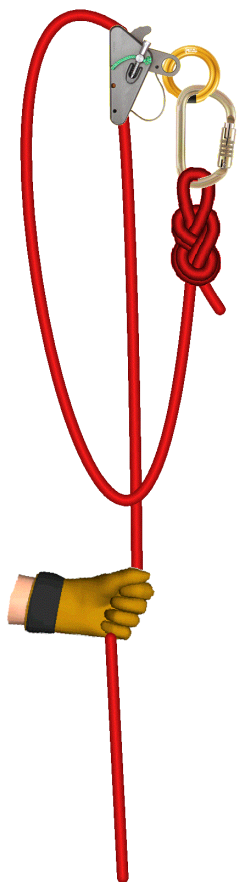


Illustration created using vRigger

Extraction point



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Superlongline pick up on upper belay point



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Connection of superlongline in the helicopter

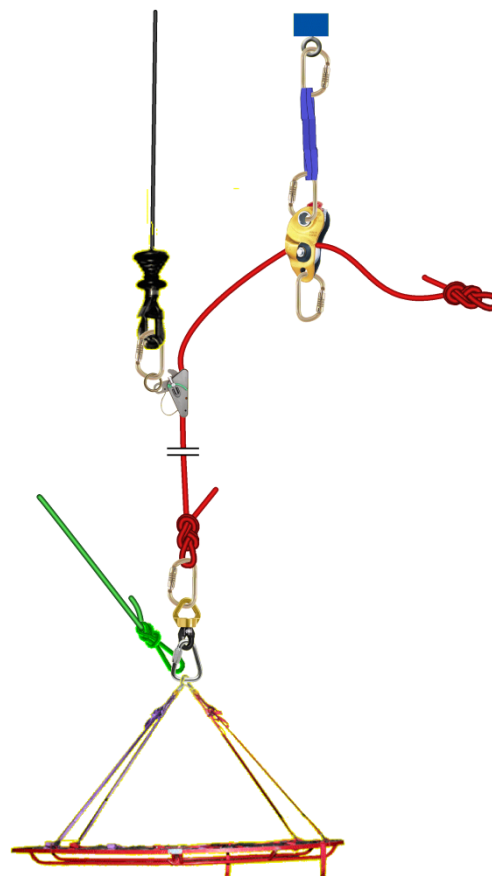


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Releasing stretcher from wall

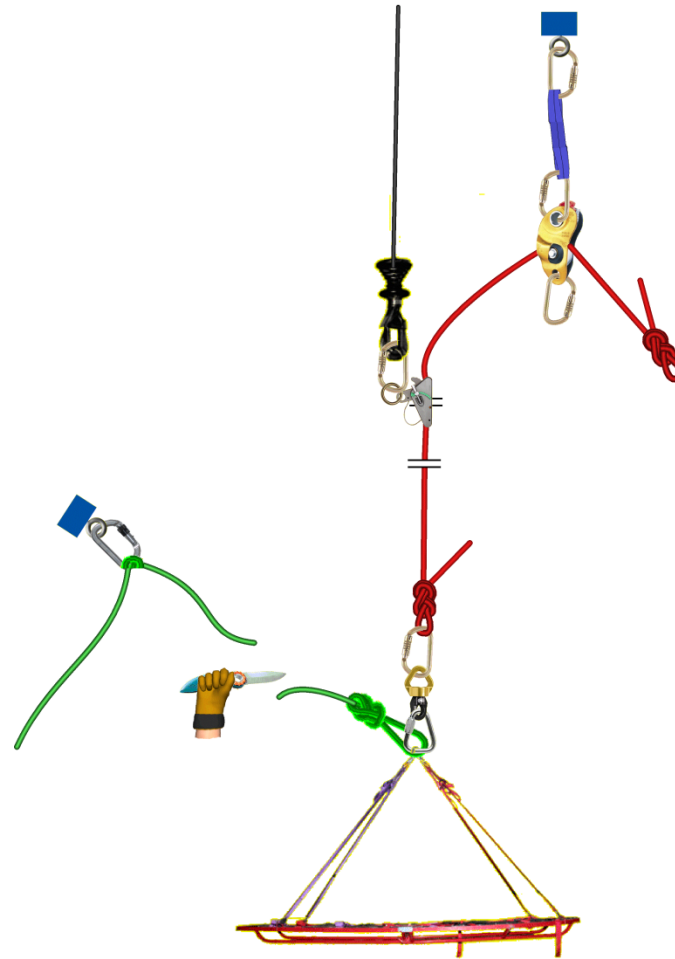


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Hoisting the superlongline

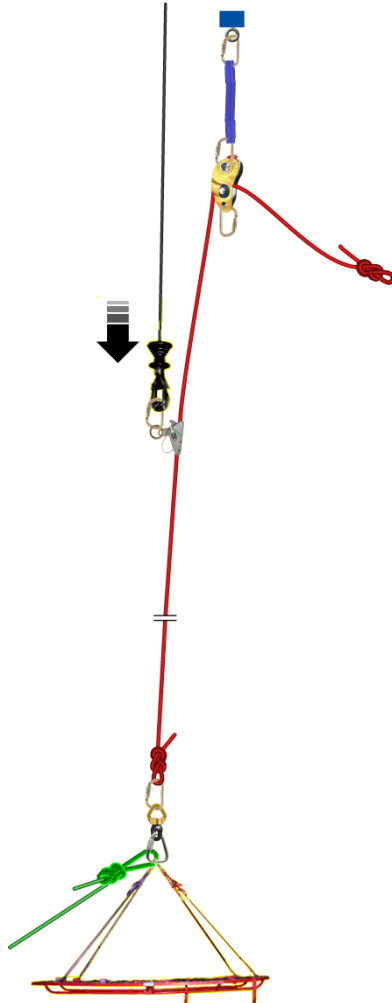


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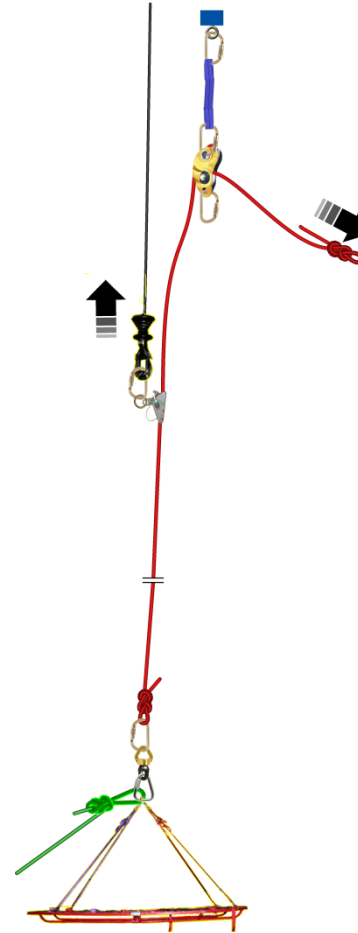


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- Film