Kenmore Air Recurrent Training

Wind Shear: Recognition and Avoidance

What is Wind Shear?

Wind shear is a significant change in wind speed and/ or direction over a short distance

What does wind shear look like?

Terrain-induced wind shear may be indicated by dark, rapidly-advancing areas on the water, or by...

What does wind shear look like?

...suspiciously calm areas of water when area surface winds exceed 15 knots.

Causes of Wind Shear

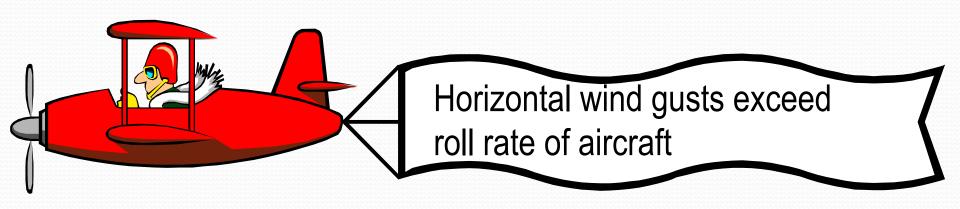
Thunderstorms

Temperature Inversions

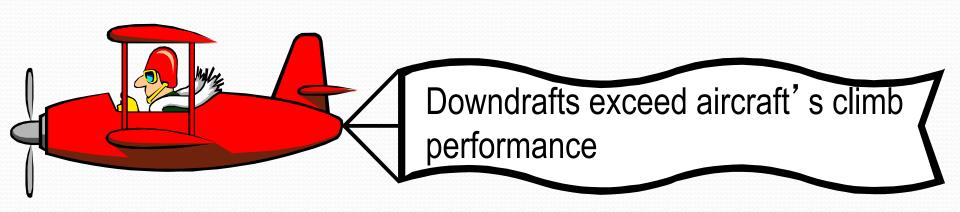
Terrain Effects Terrain-induced wind shear is the leading cause of floatplane accidents in the Pacific Northwest/ Western Canada



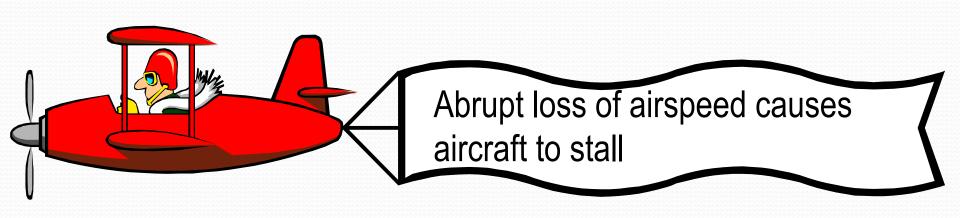
How does wind shear create floatplane accidents?



How does wind shear create floatplane accidents?



How does wind shear create floatplane accidents?





Common Wind Shear Landing Accidents

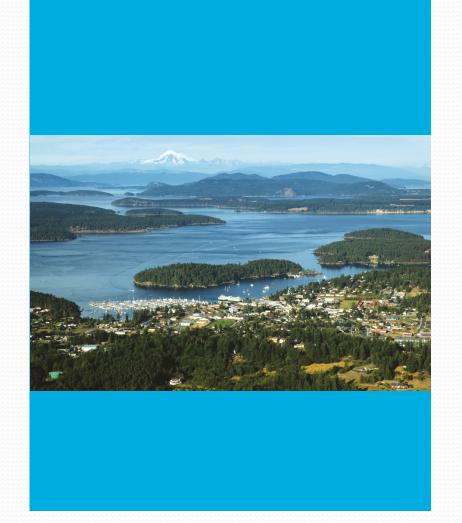
Aircraft stalls in low altitude turn

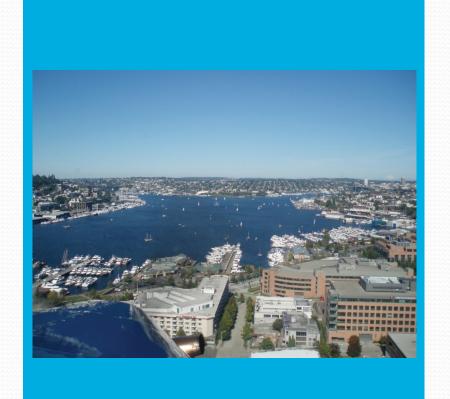
Aircraft
Unable to
Land Before
Striking
Terrain

Aircraft
Forced onto
Water

Strategy #1:

Visualize the "big picture"



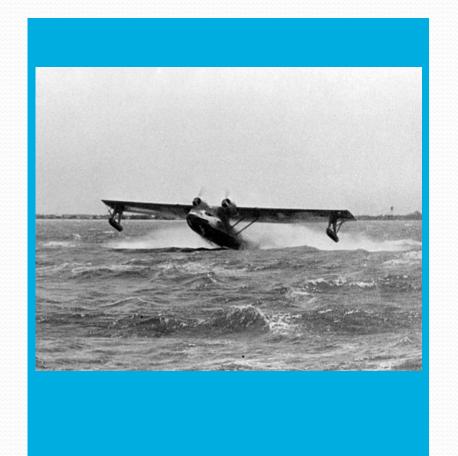


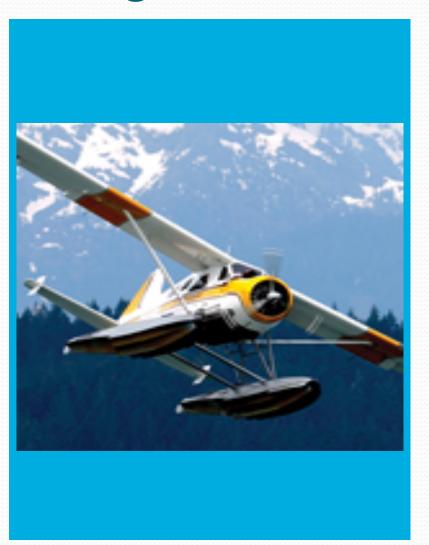
Strategy #2:

Overfly to determine wind pattern

Strategy #3:

Don't trade poor water for worse air.



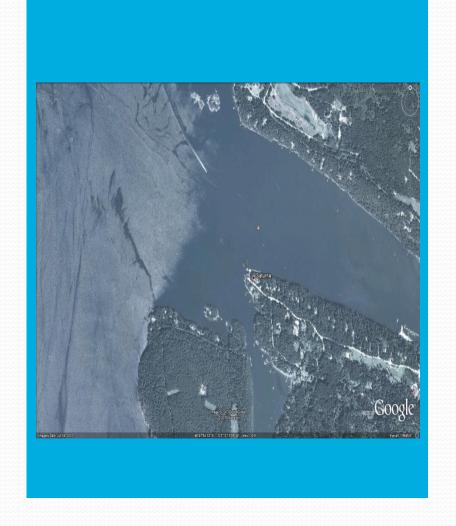


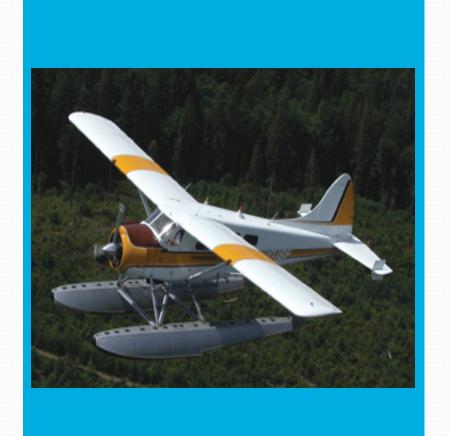
Strategy #4:

Avoid low altitude turns.

Strategy #5:

Use landform protection cautiously.





Strategy #6:

Always preserve a go-around option.

Strategy #7:

Know when to quit. (Wind SOPs can help, but don't cover all situations.)

