

Scenario: KRNO to KPAO

- Aircraft: C-182 (normally aspirated)
- Season: Winter
- Time of day: dusk trending toward night
- Weather
- It's been snowing on and off all day
 Temperature -6°C
- KRNO OVC040, KSAC OVC035, KPAO OVC015
- You have not received a good weather briefing
- You remove the snow from the plane
- There is no frost?
- You ask that the engine be pre-heated?
- You check-defrost and pilot heat ٠
- You file IFR
- You're in a hurry to get home!

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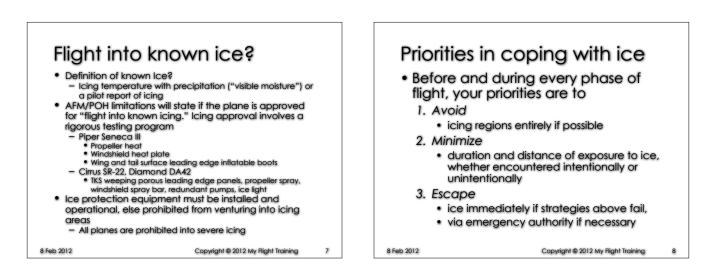
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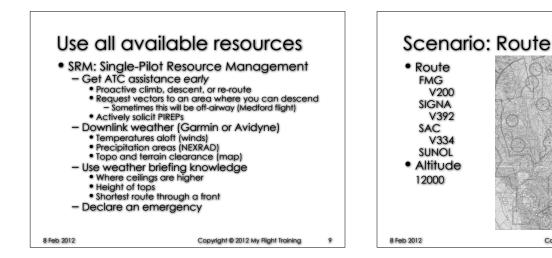
Preflight considerations

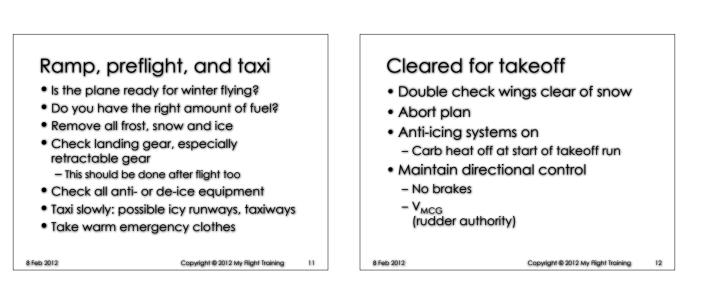
- Weather briefing
- IFR or VFR?
- Equipment capability
- None
- Supplemental protection
- Flight-into-known-ice systems
- Pilot capability
- Outs
 - VFR laterally
 - VFR-on-top
 - Low terrain
 - Above-freezing air aloft or at surface

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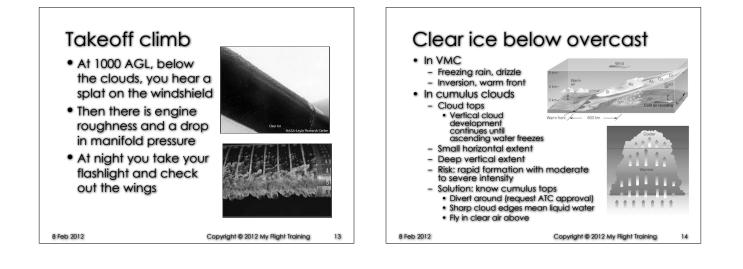


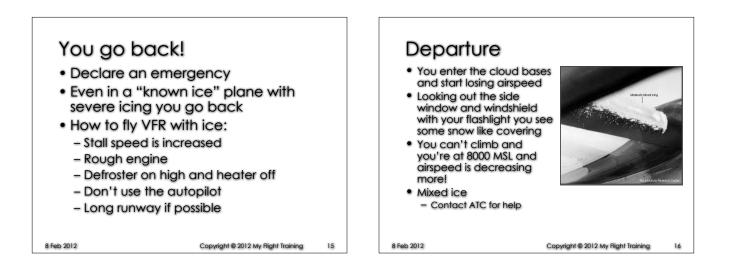


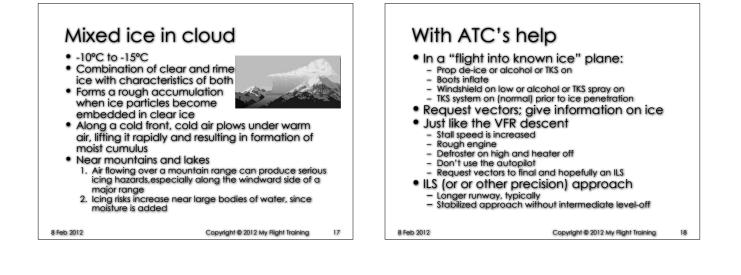


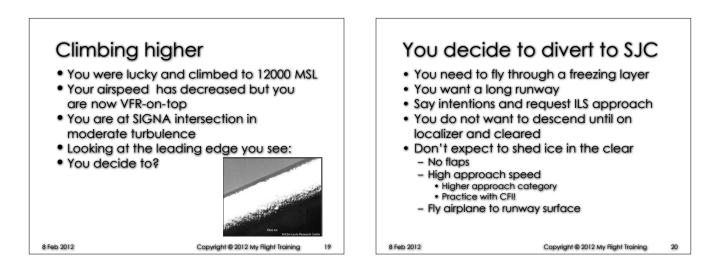
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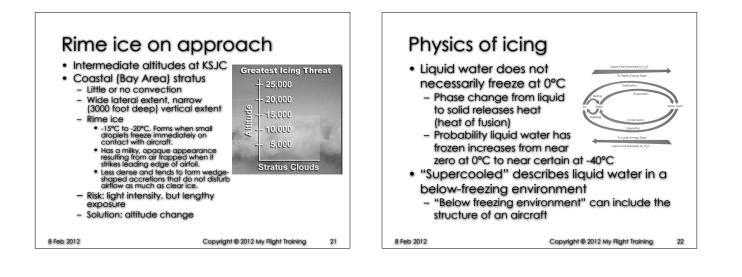
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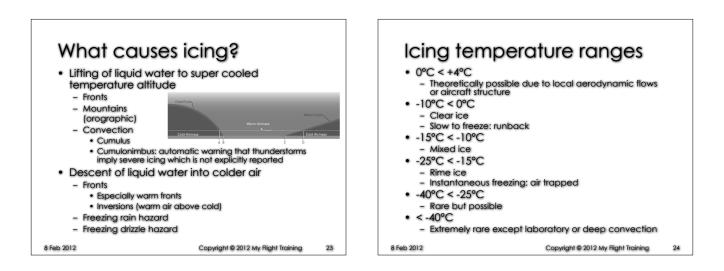








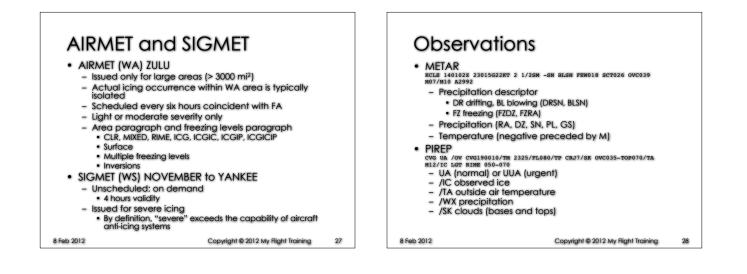






Super cooled droplet size

Droplet description	Droplet size code	Droplet diameter	METAR precipitation code	AIRMET/ SIGMET/FA abbreviation	PIREP icing intensity	Where and what?
Super cooled cloud droplets	SCCD	20 µm	-	ICGIC	LGT- MOD	Normal icing in clouds condition
Super cooled drizzle drops	SLD/ SCDD	100 µm	FZDZ	ICGIP	SEV	Freezing drizzle below cloud including VMC
Super cooled large droplets	SLD	1000 μm to 5000 μm	FZRA	ICGIP	SEV	Freezing rain below cloud including VMC



Intensity	PIREP code	Picture	Airframe accumulation	De-ice or anti- ice equipment operation	Pilot action
Trace	TRACE		Ice becomes perceptible. Rate of accumulation slightly greater than sublimation	Not used unless encountered for an extended period of time (over 1 hour)	None unless encountered for 1 hour or more
Light	LGT		May create a problem if flight is prolonged in this environment (over 1 hour)	Occasional use removes or prevents accumulation	Heading or altitude change required
Moderate	MOD		Even short encounters become potentially hazardous	Continuous use necessary	Heading or altitude change or diversion required
Severe	SEV	1	Deicing/anti-icing equipment fails to reduce or control the hazard	By definition, exceeds equipment capability	Immediate diversion required

