

WINTRE-MIX manual hydrometeor obs. report [group XXXX]

* Required

1. Observer initials *

2. Location *

Mark only one oval.

☐ Sorel

☐ Trois-Rivieres

☐ Other:

3. Date & time (UTC) *

Date and time that collection/observation begins

Example: January 7, 2019 11:03 AM

Precipitation type and weather

4. Primary precipitation type *

RA=rain; FZRA:=Freezing rain; DZ=Drizzle; FRDZ=Freezing Drizzle; SN=Snow; SG=Snow grains; IC= Ice crystals (diamond dust); PL= Ice pellets; GS= Snow pellets (graupel)

<https://cloudatlas.wmo.int/en/hydrometeors-other-than-clouds-falling.html> If "Unknown/Uncertain" explain in "weather / p-type comments".

Mark only one oval.

- ☐ None
- ☐ Unknown or Uncertain
- ☐ RA
- ☐ FZRA
- ☐ DZ
- ☐ FRDZ
- ☐ SN
- ☐ SG
- ☐ IC
- ☐ PL
- ☐ GS

5. Secondary precipitation type *

RA=rain; FZRA:=Freezing rain; DZ=Drizzle; FRDZ=Freezing Drizzle; SN=Snow; SG=Snow grains; IC= Ice crystals (diamond dust); PL= Ice pellets; GS= Snow pellets (graupel)

<https://cloudatlas.wmo.int/en/hydrometeors-other-than-clouds-falling.html> If "Unknown/Uncertain" explain in "weather / p-type comments".

Mark only one oval.

- ☐ None
- ☐ Unknown or Uncertain
- ☐ RA
- ☐ FZRA
- ☐ DZ
- ☐ FRDZ
- ☐ SN
- ☐ SG
- ☐ IC
- ☐ PL
- ☐ GS

6. If a frozen p-type was identified, was it visibly wet/melting?

If SN, SG, IC, PL, or GS is observed, attempt to determine if the hydrometeor was melting **before** it reached the ground.

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Uncertain

7. If PL was identified, does it have a liquid core?

Mark only one oval.

☐ Yes

☐ No

☐ Uncertain

8. mPING report submitted? *

Mark only one oval.

☐ yes

☐ no

9. Fog present?

Mark only one oval.

☐ Yes

☐ No

10. Blowing snow?

Mark only one oval.

☐ Yes

☐ No

11. Primary cloud type?

Cb=Cumulonimbus; Cu=Cumulus; St=Stratus; Ns=Nimbostratus; Sc=Stratocumulus; As=Altostratus;
Ac=Altostratus; Ci=Cirrus; Cc=Cirrocumulus; Cs=Cirrostratus

<https://cloudatlas.wmo.int/en/cloud-identification-guide.html>

Mark only one oval.

☐ Cb

☐ Cu

☐ St

☐ Ns

☐ Sc

☐ As

☐ Ac

☐ Ci

☐ Cc

☐ Cs

12. Sky cover

0–8 Oktas (eighths of sky covered).

<https://worldweather.wmo.int/oktas.htm>

Mark only one oval.

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

13. Weather / p-type comments

Notes about observation methods, uncertainties, etc.

Hydrometeor photography

14. Hydrometeor photos taken? *

Mark only one oval.

- ☐ Yes (macro DSLR)
- ☐ Yes (cell phone only)
- ☐ No

15. DSLR settings

Shutter speed, ISO, focal length,...

Mark only one oval.

- ☐ Same as previous photo
- ☐ Other: _____

16. Photo comments

Snow and ice amount

17. Snow / ice measurements collected *

Mark only one oval.

- ☐ Snow board only
- ☐ Snow board and ice accretion
- ☐ Ice accretion only
- ☐ None

18. Interval snow depth (mm)

Taken on snow board. Average of at least 3 depth measurements. Default is to clear board after measurement. If otherwise, note in comments.

19. Interval snow water equivalent (mm)

Taken from snow board. Single measurement. Default is to clear board after measurement. If otherwise, note in comments.

20. Snow board interval (h)

Time since snow board was deployed or cleared. In most cases this should be 3 hours. Default is to clear board after measurement. If otherwise, note in comments.

21. Ice accretion caliper reading (mm)

Full thickness measured with calipers (object thickness not subtracted, not divided by 2). Average of readings at multiple angles, locations.

22. Ice accretion period (h)

Mark only one oval.

☐ From start of IOP operations

☐ Other: _____

23. Snow and ice amount comments

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