

Field Guides to The Invisible – Chicago, IL, USA

Snowflakes from the Field Museum Photo Archives

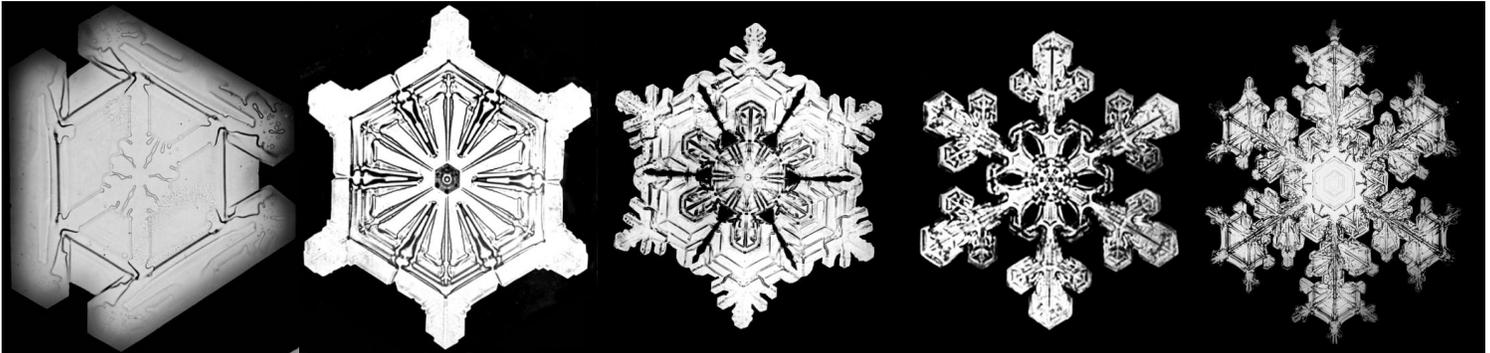
Sara Raposo

Museum of Science and Industry Chicago, Former Volunteer at the Field Museum Photo Archives

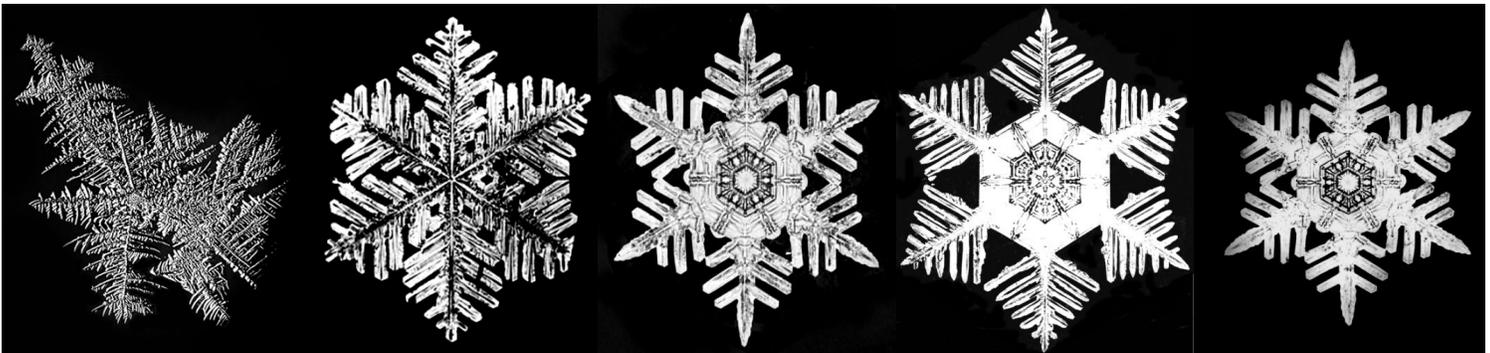
Photos: Field Museum Photo Archives. Photographer: Unknown. Produced by: Sara Raposo.
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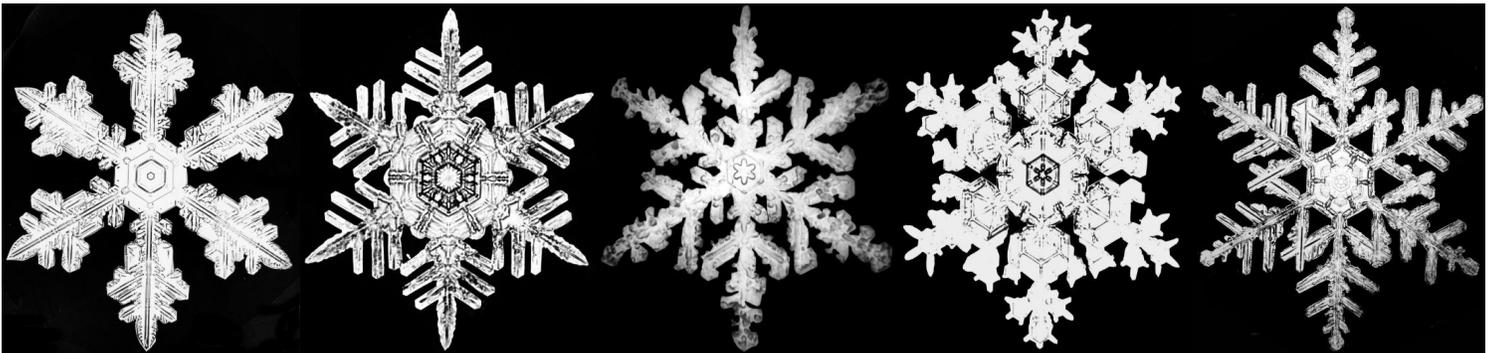
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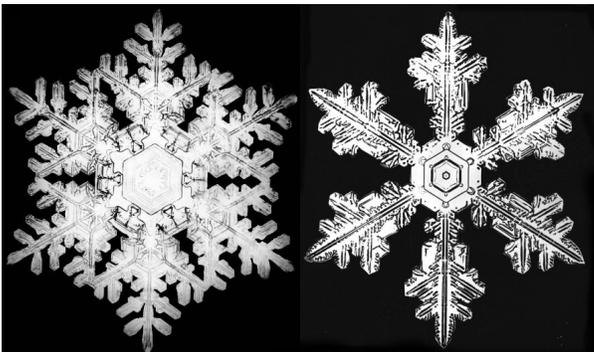
1 G2 – Plane-type Ice Crystal CSGEO3611 2 P2 – Sector-type Crystal CSGEO3620 3 P5 – Multiple Dendrite-type CSGEO3619 4 P3 – Dendrite-type Crystal CSGEO3613_B 5 P3 – Dendrite-type Crystal CSGEO3630



6 P7- Radiating Plane Crystal CSGEO3222 7 P3 – Dendrite-type Crystal CSGEO3613_C 8 P5 – Multiple Dendrite-type CSGEO3613 9 P5 – Multiple Dendrite-type CSGEO3621 10 P5 – Multiple Dendrite-type CSGEO3622



11 P5 – Multiple Dendrite-type CSGEO3632 12 P5 – Multiple Dendrite-type CSGEO3693 13 P5 – Multiple Dendrite-type CSGEO3625 14 P5 – Multiple Dendrite-type CSGEO3626 15 P5 – Multiple Dendrite-type CSGEO3627



16 P5 – Multiple Dendrite-type CSGEO3629 17 P5 – Multiple Dendrite-type CSGEO3631

The snow crystals or snowflakes photo collection is composed of 19 glass plate negatives (4×5 and 5×7) from the 19th-century (1896-1898), and 20 prints. Part of the Geology Department, the prints are tagged by 'Physical Geology' and 'Frost Action' items. The photographs were made using the photomicrographic technique used by Wilson A. Bentley (1865-1931), who developed the equipment and techniques to take photographs of individual snowflakes.

COLUMN CRYSTALS



PLANE CRYSTALS



COMBINATION OF COLUMN & PLANE CRYSTALS



AGGREGATION



RIMED SNOW CRYSTALS



GERM OF ICE CRYSTALS



SNOWFLAKES

Classifications & shapes

IRREGULAR PARTICLES



OTHER SOLID PRECIPITATION



KEY



Snowflakes can occur in a huge variety of shapes. This chart shows the general and intermediate levels of classification for these shapes; they can also be divided further into elementary levels, which are not shown here.

GENERAL 8 CATEGORIES

INTERMEDIATE 39 CATEGORIES

ELEMENTARY 121 CATEGORIES

G1	Needle-type crystal	R2	Sector-type crystal	H1	Irregular particle	R2	Density rimed crystal	H1	Frozen hydrometeor particle
C2	Sheath-type crystal	R3	Dendrite-type crystal	H2	Irregular snowflake	R3	Grapelike snow	H2	Bleet particle
C3	Column-type crystal	R4	Composite plane-type crystal	H3	Irregular particle	R4	Grapelike snow	H3	Ice particle
C4	Bullet-type crystal	P1	Separated & multiple dendrite-type crystal	H4	Irregular particle	G1	Column-type ice crystal	H4	Halitons
P1	Plate-type crystal	P2	Spatial assemblage of plane-type crystal			G2	Plane-type ice crystal		
		P3	Radiating assemblage of plane-type crystal						
		P4	Asymmetrical plane-type crystal						
		P5	Column with plane-type crystals						
		P6	Column with plane-type crystals						
		P7	Combination: bullets & plane-type crystals						
		P8	Plane crystals with column-type crystals						
		CP1	Irregular comb: column/plane-type						
		CP2	Skeletal-type crystal						
		CP3	Column-type crystal						
		CP4	Column-type crystal						
		CP5	Column-type crystal						
		CP6	Column-type crystal						
		CP7	Column-type crystal						
		CP8	Column-type crystal						
		CP9	Column-type crystal						
		A1	Irregular particle						
		A2	Irregular particle						
		A3	Irregular particle						
		G1	Irregular particle						
		G2	Irregular particle						
		G3	Irregular particle						
		G4	Irregular particle						
		I1	Irregular particle						
		I2	Irregular particle						
		I3	Irregular particle						
		H1	Irregular particle						
		H2	Irregular particle						
		H3	Irregular particle						
		H4	Irregular particle						



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