

# BIBLIOGRAPHY OF CANADIAN METEORITES

*On behalf of*  
**Meteorite Research**

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(ii+52 pages, with 3 figures)



**Conversion Table**

N.B. Most factors are approximate

<i>Unit</i>	<i>Times</i>	<i>Equals</i>
<b>Length</b>		
1 inch	25.4	mm
1 foot	0.3048	m
1 mile (statute)	1.6093	km
<b>Area</b>		
1 square mile	2.59	km <sup>2</sup>
1 acre	0.4047	ha
<b>Mass</b>		
1 ounce (advp)	28.3495	g
1 ounce (troy)	31.1035	g
1 ton (short)	907.18	kg
1 ton (long)	1016.05	kg
<b>Concentration</b>		
1 troy oz/short ton	34.2857	g/t (ppm)
<b>Volume</b>		
1 Imperial gallon	4.54596	l
1 U.S. gallon	3.78541	l

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In appropriate circumstances, the recommended citation format for this open-file report is as follows;

WILSON,GC (2012) Bibliography of Canadian meteorites. Turnstone Geological Services Limited Report 2012-07, ii+52pp.

## Introduction

At the time of writing, there are just 60 officially ratified meteorite falls and finds in Canada, as reported by the Meteoritical Bulletin database (nos. 1-100, issues no.99 onwards available only on-line). At least 13 more are known, but to date have not been submitted or not met with Met.Bull. approval. See Wilson (2012) for additional details of the meteorites “in process” at this time.

As promised in a forthcoming short review of the 60 “official” meteorites (Wilson and McCausland, 2012), this document provides a listing of relevant references taken from the compiler's MINLIB bibliographic database. Each of the 580 records refer to one or more of these 60 Canadian meteorites. The time of publication (or creation, as many are “grey literature”, not peer-reviewed journals) is distributed as follows:

<i>From</i>	<i>To</i>	<i>Items</i>
1854	1970	62
1971	1980	58
1981	1990	63
1991	2000	132
2001	2010	247
2011	2012	18
	Total	580

The parent MINLIB and WORLD annotated databases total over 100,000 records, with 1 to 30 lines of keywords per record. To keep a reasonably compact format, pending release of the databases, the following list provides a citation for each reference, without keywords. Where the title does not make it clear, the relevant Canadian meteorite(s) are mentioned *after the title*, in square brackets, e.g., “[Abee, Blithfield]”. In a few cases “**numerous**” means just that, anything from six to forty or more meteorites in a single title. In most cases these are review articles, the content per meteorite typically ranging from a compact description to a single parameter, such as olivine composition.

## Caveats and limitations

This reference list is shared in the hopes of furthering research on Canadian meteorites. Note, however, that this is NOT a catalogue, and there is no commitment to supply any or all of the references upon demand. Abstracts in particular are often available on-line. A very few may yet be considered confidential, though hardly “top-secret”. There is also no guarantee that each and every Canadian meteorite is flagged in every pertinent record, though some effort has been put into the task.

The presentation is chronological, commencing in 1855, with a note on the recognition of the Madoc iron, the first Canadian meteorite to receive scientific attention (it is understood that prairie native peoples had known of and venerated the Iron Creek mass long before that).

Over the years I have tried to find the earliest references to as many of the Canadian meteorites as possible. I have also included a lot of “grey literature”, from memos and unpublished reports to newspaper articles. There is an impressive literature, averaging almost 10 items per meteorite, but this is no guarantee of completeness. The coverage is also predictably skewed, as shown in the number of MINLIB entries (see the two references for a tabulation), toward a number of unusual and/or widely available finds and falls, such as the four most-cited examples, namely Abee, Tagish Lake, Bruderheim and Springwater (each with 60 to 130 or more records in this list).

Note that the selection is inevitably biased by what is available to the compiler – I have numerous subscriptions, but have not been able to spend much time in academic libraries since mid-2004. I have been forced to, overall, pay less attention to abstracts over the years, though the Meteoritical Society abstracts are well-represented where available in hard copy. Needless to say, there are also publications just “around the corner” that are omitted from this edition – watch for the meteorites and planetary sciences issue of *Canadian Journal of Earth Sciences*, due late 2012.

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## Abbreviations

Most may be obvious, but since readers from diverse backgrounds may scan this list, a few of the MINLIB short forms are expanded below:

<i>Abbreviation</i>	<i>Full form</i>
BGSA	Bulletin of the Geological Society of America
CJES	Canadian Journal of Earth Science
EPSL	Earth and Planetary Science Letters
GCA	Geochimica et Cosmochimica Acta
GSC	Geological Survey of Canada
MIAC	Meteorites and Impacts Advisory Committee to the Canadian Space Agency (CSA). Its precursor was ACOM (the Associate Committee on Meteorites). Later replaced by ADWG (Astromaterials Discipline Working Group) for CSA.
ODM	Ontario Department of Mines, now the Ontario Geological Survey (OGS).
TGSL	Turnstone Geological Services Limited

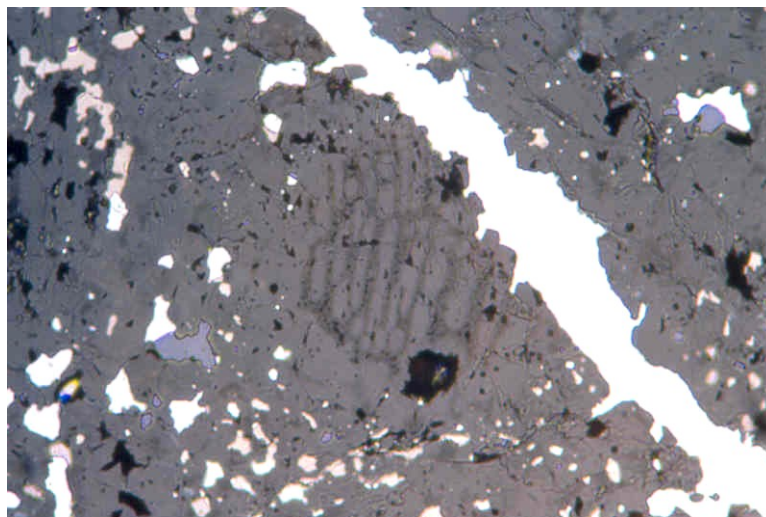
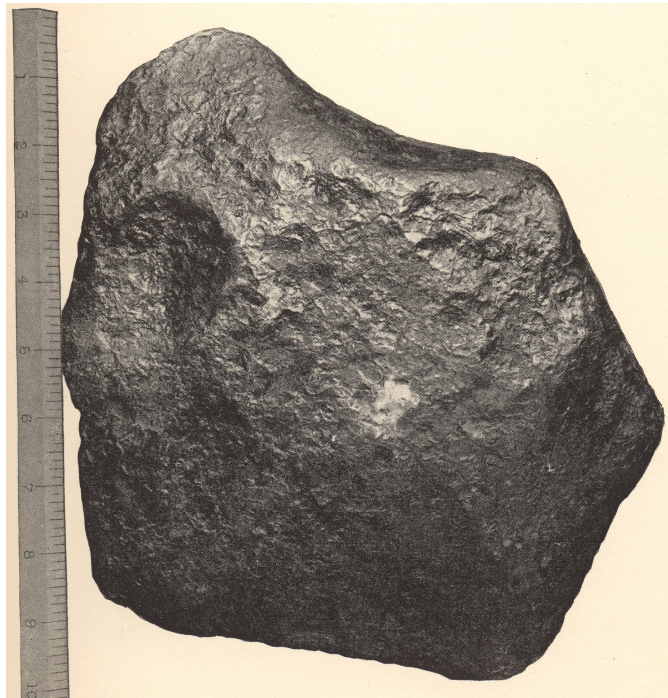
**Figure 1. Stony and stony-iron meteorites.**

**Above:** The **Kitchener** L6 chondrite, southern Ontario. This single (as far as is known) fully-crusted 202-gram individual fell on the Doon Valley golf course on a Sunday morning, 12 June 1998. The specimen reveals the outline of a 3-mm chondrule under the thin fusion crust. **Below:** A small (~50-gram) sawn individual of the famed **Springwater** pallasite, Saskatchewan. The polished face reveals the classic texture and major (olivine-kamacite) mineralogy, not so easily discerned on the uneven, pale and rusty exterior. The original find in 1931 marked the first and by far the largest of the three pallasite discoveries in Canada. This meteorite has been the subject of at least seven studies on contained phosphate minerals and eight on its olivine grains.



## Figure 2. Iron and stony meteorites.

**Above:** The **Skookum** iron meteorite, originally known as Klondike (Skookum Gulch), one of two irons recovered from placer gold operations in the early 20<sup>th</sup> century. This 15.88-kg flattened mass of type IVB ataxite was found in 1905. Photo from the fine monograph by Johnson (1915). **Below:** photomicrograph in plane-polarized reflected light of the **Dresden (Ontario)** H6 chondrite, a well-documented fall on 11 July 1939. A bright nickel-iron metal vein (kamacite plus taenite) cuts the rim of a barred olivine chondrule. There are abundant kamacite and darker iron sulphide (troilite) grains in the groundmass. Field of view ~2 mm (Wilson, 2004).





**Figure 3.** The crux of the matter of **meteorite recognition**, in the field! **Above:** 67 small (pea to walnut-sized), moderately rusted stones from the **Gao-Guenie** meteorite shower of H5 chondrite material over Burkina Faso on 5<sup>th</sup> March 1960. Several thousand individuals were recovered, the largest 10 kg in weight, after a noisy rain of stones. **Below:** 31 dark and (at a distance) plausible candidates for the suspected fall that may have accompanied the Selwyn fireball of 12<sup>th</sup> December 2011, over the eastern Kawartha region, southeast Ontario. On closer inspection, all are “roadstone”, mostly local metabasic igneous rocks, plus a few unusually dark grey limestones. None show the residual fusion crust and sub-mm metal specks to be seen in Gao-Guenie (inset).





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