

Statistics

As of 2026/07/02, the database contains

- 385 records of a supernova remnant (SNR): the 295 objects of Green's radio catalogue as of June 2017, plus 90 objects confirmed or candidates [see list at the end]: several filled-centre remnants, and also shells or composites that were added in the light of recent observations. 137 records mention a neutron star (NS) or NS candidate, 113 being identified as a pulsar (PSR), including 6 anomalous X-ray pulsars (AXPs). There are also 5 soft gamma-ray repeaters (SGRs), and a total of 13 magnetar candidates. The list also includes 15 central compact objects (CCOs) or CCO candidates. A pulsar wind nebula (PWN) is detected or suggested in 107 cases (which are not a subset of the population of SNRs having a NS: only 85 SNRs are associated with both a PWN and a NS/PSR). Interaction of the shell with a molecular cloud is reported in 80 cases, with varying levels of confidence.
- 14 records of the sighting of a supernova, that are referred to by 14 SNRs records (in a non-bijective way, and with varying levels of confidence).
- 1982 records of high-energy observations made with 40+ observatories, as shown in Table 1. Note that 447 of these are actually non-detections, and that the emission might not be coming from the SNR, as seen in Table 2.
- 3528 references in the form of SAO/NASA ADS bibcodes, plus hundreds of other URLs.

The catalogue can be browsed online at snrcat.physics.umanitoba.ca/

For details, see the companion paper:

Ferrand & Safi-Harb 2012, AdSpR, 49, 9, 1313-1319.

domain	instrument	records by instrument	records by domain		
X-rays	keV	ASCA	128 + 4 = 132	989 + 52 = 1041	
		BeppoSAX	23 + 0 = 23		
		Chandra	156 + 6 = 162		
		Einstein	56 + 7 = 63		
		SRG/eROSITA	22 + 0 = 22		
		EXOSAT	20 + 0 = 20		
		Ginga	19 + 0 = 19		
		HEAO-1	19 + 2 = 21		
		Hitomi	2 + 0 = 2		
		INTEGRAL	27 + 7 = 34		
		IXPE	16 + 0 = 16		
		MAXI	24 + 0 = 24		
		NICER	14 + 0 = 14		
		NuSTAR	41 + 0 = 41		
		CGRO/OSSE	5 + 0 = 5		
		ROSAT	99 + 11 = 110		
		RXTE	29 + 5 = 34		
		Suzaku	82 + 2 = 84		
		SWIFT	31 + 2 = 33		
		Uhuru	10 + 0 = 10		
XMM	146 + 6 = 152				
XRISM	4 + 0 = 4				
[X]	16 + 0 = 16				
γ -rays	MeV	CGRO/COMPTEL	4 + 0 = 4	8 + 5 = 13	546 + 395 = 941
		INTEGRAL	2 + 5 = 7		
		[gamma_MeV]	2 + 0 = 2		
	GeV	AGILE	47 + 11 = 58	291 + 159 = 450	
		COS-B	7 + 0 = 7		
		CGRO/EGRET	29 + 20 = 49		
		Fermi	205 + 128 = 333		
	SAS-2	3 + 0 = 3			
	TeV	ARGO-YBJ	7 + 0 = 7	247 + 231 = 478	
		CANGAROO	8 + 8 = 16		
		HAWC	43 + 13 = 56		
		HEGRA	4 + 8 = 12		
		H.E.S.S.	101 + 161 = 262		
		LHAASO	20 + 0 = 20		
		MAGIC	16 + 12 = 28		
Milagro		10 + 0 = 10			
ShALON		8 + 0 = 8			
Tibet AS- γ		6 + 10 = 16			
VERITAS		18 + 9 = 27			
Whipple	3 + 9 = 12				
[gamma_TeV]	3 + 1 = 4				
ALL	TOTAL	1535 + 447 = 1982	1535 + 447 = 1982		

Table 1: Number of observational records in the database, by energy domain and by instrument (some experiments with few records are grouped under [X] and [gamma_MeV/TeV]). Numbers are the sum of successful observations and non-detections.

	ejecta / shock	compact object / wind	other (unrelated)	unknown
X-rays	$395 + 92 = 487$	$399 + 134 = 533$	$28 + 18 = 46$	88
γ -rays	$65 + 179 = 244$	$127 + 132 = 259$	$1 + 14 = 15$	118
TOTAL	$460 + 271 = 731$	$526 + 266 = 792$	$29 + 32 = 61$	206

Table 2: Nature of the high-energy emission source for all observational records in the database. For the first three columns, numbers are the sum of confident and uncertain identifications. Note that the four columns are not exclusive.

Objects added, corrected or split

2012/02/01 (public release)

the 274 objects from Green's 2009 list plus

- G000.1-00.1 for PWN G0.13-0.11
- G005.7-00.1 (close to W28)
- G007.5-01.7 with PWN G7.4-2.0 = Taz
- G010.9-45.4 for PWN G10.93-45.44
- G018.0-00.7 for PWN G18.00-0.69 = Turkey
- G018.5-00.4 for PWN = Eel
- G025.5+00.0 with PWN
- G034.0+20.3 for PWN G34.01+20.27
- G035.6-00.4
- G047.4-03.9 for PWN G47.38-3.88
- G059.2-04.7 for PWN G59.20-4.70 = Black

Widow

- G075.2+00.1 for PWN G75.23+0.12 =

Dragonfly

- G107.5-01.5
- G108.6+06.8 = PWN = Guitar
- G148.1+00.8 = PWN = Mushroom
- G189.6+03.3 (overlaps IC443)
- G195.1+04.3 = PWN (Geminga)
- G230.4-01.4 for PWN G230.39-1.42
- G287.4+00.6 for PWN G287.42+0.58 = Puppy
- G304.1-00.2 for PWN G304.10-0.24
- G309.9-02.5 for PWN G309.92-2.51
- G310.6-01.6
- G313.3+00.1 for PWN G313.32+0.13 = Rabbit
- G313.6+00.3 for PWN G313.54+0.23 =

Kookaburra

- G320.0-00.6 for PWN G319.97-0.62
- G332.5-00.3 for PWN G332.50-0.28
- G348.9-00.4 for PWN G348.95-0.43
- G359.2-00.8 for PWN G359.23-0.82 = Mouse

2012/03/08

- G308.4-01.4 or G308.3-01.4

2012/08/04

- G011.1+00.1 = PWN G11.09+0.08 (moved from SNR G011.2-00.3)
- G064.5+0.9
- G080.2+01.0 = PWN
- G162.8-16.0 = PWN
- G313.5+00.3 (renamed from G313.6+00.3 to be consistent with PWN G313.54+0.23 = Kookaburra)
- G336.4+00.2 = PWN
- G344.7+00.1 for PWN G344.74+0.12 (moved from SNR G344.7-00.1)

2012/08/30

- G319.9-00.7 (corrected from G320.0-00.6)
- G296.7-00.9

2013/03/15

- G152.4-02.1
- G190.9-02.2
- G306.3-00.9

2013/04/15

- G178.2-04.2
- G025.1-02.3

2013/12/13

- G276.5+19.0 = Antlia
- G321.4-00.5 = Circinus X-1

2014/03/05

- G038.7-01.4

2014/07/24

- G029.4+00.1
- G038.7-01.3 (corrected from G038.7-01.4)
- G141.2+05.0
- G267.0-01.0 = PWN (moved from overlapping SNR G266.2-01.2 = Vela Jr)
- G284.0-01.8 = PWN (moved from nearby SNR G284.3-01.8 = MSH 10-53)
- G309.8-02.6 = SNR candidate instead of G309.9-02.5 for PWN
- G322.1+00.0 (corrected from G321.4-00.5)

2014/09/03 (Green's update)

- G016.8-01.1 removed
- G021.6-00.8
- G041.5+00.4
- G042.0-00.1
- G065.8-00.5
- G066.0-00.0
- G067.6+00.9
- G067.8+00.5
- G159.6+07.3
- G213.0-00.6

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2015/01/21

- G108.5+11.0
- G128.5+02.6
- G149.5+03.2
- G150.3+04.5
- G150.8+03.8
- G151.2+02.9
- G160.1-01.1
- G333.9+00.0
- G354.4+00.0

2015/02/18

- G269.7+00.0
- G291.0+00.1
- G296.6-00.4
- G299.3-01.5
- G310.7-05.4
- G310.9-00.3
- G321.3-03.9
- G322.7+00.1
- G322.9-00.0
- G323.7-01.0
- G324.1+00.0
- G325.0-00.3
- G330.7+00.1
- G334.0-00.8
- G336.7-00.3
- G336.9-00.5
- G345.1-00.2
- G345.2+00.2
- G346.2-01.0
- G348.9+01.1
- G351.0-05.4
- G354.1+00.3

2015/04/15

- G006.4+04.9 = PWN
- G021.9-00.1 = PWN G21.88-0.10
- G023.5+00.1 = PWN
- G025.2+00.3 = G25.25+0.28
corrected from G25.5+0.0
(contains PWNe G25.24-0.19 and G25.21-0.02)
- G026.6-00.1 = PWN
- G032.6+00.5 = PWN G32.64+0.53
- G036.0+00.1 = PWN G36.01+0.06
- G044.5-00.2 = PWN G44.48-0.17
- G172.8+01.5
- G190.2+01.1

- G284.2-00.4 = PWN G284.19-0.39
- G285.1-00.5 = PWN G285.06-00.5
- G317.9-01.8 = PWN G317.89-1.79
- G323.9+00.0 = PWN G323.89+0.03
- G337.5-00.1 = PWN
- G350.2-00.8 = PWN
- G358.3+00.2 = PWN G358.29+0.24
- G358.6-01.0 = PWN G358.55-0.96
- G359.9-00.0 = PWN G359.95-0.04

2015/06/04

- reverted to G313.6+00.3 for PWN
G313.54+0.23 = Kookaburra, to be consistent
with literature even though larger region

2016/02/26

- G201.1+08.3 = PWN candidate

2016/12/16

- G181.1+09.5
- G331.5-00.6 for candidate HESS J1614-518

2017/07/21

- G053.4+00.0
- G070.0-21.5

2026/06/19

- G279.0+01.1 renamed G279.0+01.3 from
G278.94+1.35
- split G025.2+00.3 into three: kept it for shell
candidate G25.25+0.28, added G025.2-00.2 for
PWN G25.24-0.19 / PSR J1838-0655 and
G025.2-00.0 for PWN candidate G25.21-0.02.