Statistics

As of 2018/01/03, the database contains

- 383 records of a supernova remnant (SNR): the 295 objects of Green's catalogue as of June 2017, plus 99 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. 128 records mention a neutron star (NS) or NS candidate, 109 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 106 cases (which are not a subset of the population of SNRs having a NS: only 84 SNRs are associated with both a PWN and a NS/PSR. Interaction of the shell with a molecular cloud is reported in 73 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).
- 1674 records of high-energy observations made with 41 observatories, as shown in Table 1. Note that 425 of these are actually non-detections, and that the emission might not be coming from the SNR, as seen in Table 2.
- 2352 references in the form of SAO/NASA ADS bibcodes, plus hundreds of other URLs.

The catalogue can be browsed online at http://www.physics.umanitoba.ca/snr/SNRcat For details, see the companion paper: Ferrand & Safi-Harb 2012, AdSpR, 49, 9, 1313-1319.

domain		instrument	records by instrument	records by domain		
		ASCA	127 + 3 = 130			
		BeppoSAX	23 + 0 = 23			
		Chandra	148 + 8 = 156			
		Einstein	56 + 7 = 63			
		EXOSAT	20 + 0 = 20			
		Ginga	19 + 0 = 19			
		HEAO-1	19 + 2 = 21			
		Hitomi	2 + 0 = 2			
X-rays	keV	INTEGRAL	25 + 7 = 32	820 + 5	50 = 870	
		NuSTAR	13 + 0 = 13			
		CGRO/OSSE	5 + 0 = 5			
		ROSAT	97 + 8 = 105			
		RXTE	27 + 5 = 32			
		Suzaku	71 + 3 = 74			
		SWIFT	25 + 2 = 27			
		Uhuru	10 + 0 = 10			
		XMM	133 + 5 = 138			
	MeV	CGRO/COMPTEL	4 + 0 = 4	6 + 3 = 9		
		INTEGRAL	1 + 3 = 4			
		NCT	1 + 0 = 1			
	GeV	AGILE	20 + 0 = 20	232 + 165 = 397		
		COS-B	7 + 0 = 7			
		CGRO/EGRET	29 + 20 = 49			
		Fermi	173 + 145 = 318			
		SAS-2	3 + 0 = 3			
		ARGO-YBJ	7 + 0 = 7			
		CANGAROO	8 + 8 = 16			
		CAT	1 + 0 = 1			
		CELESTE	1 + 1 = 2			
		GT-48	2 + 0 = 2			
γ -rays		HAGAR	1 + 0 = 1		429 + 375 = 804	
		HAWK	29 + 0 = 29			
		HEGRA	4 + 8 = 12			
		H.E.S.S.	90 + 149 = 239			
	TeV	MAGIC	10 + 12 = 22	191 + 207 = 398		
		Milagro	10 + 0 = 10			
		PACT	1 + 1 = 2			
		ShALON	7 + 0 = 7			
		STACEE	1 + 1 = 2			
		TACTIC	1 + 0 = 1			
		THEMISTOCLE	1 + 0 = 1			
		Tibet AS- γ	1 + 12 = 13			
		VERITAS	13 + 6 = 19			
		Whipple	3 + 9 = 12			
ALL		TOTAL	1249 + 425 = 1674	1249 + 425 = 1674		

Table 1: Number of observational records in the database, by energy domain and by instrument (numbers are the sum of successful observations and non-detections).

	ejecta / shock	compact object / wind	other (unrelated)	unknown
X-rays	326 + 73 = 399	305 + 129 = 434	28 + 17 = 45	88
γ -rays	49 + 86 = 135	109 + 68 = 177	0 + 11 = 11	151
TOTAL	375 + 159 = 534	414 + 197 = 611	28 + 28 = 56	239

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
- \bullet G080.2+01.0 = PWN
- G162.8-16.0 = PWN
- \bullet G313.5+00.3 (renamed from G313.6+00.3 to be consistent with PWN G313.54+0.23 = Kookaburra)

1100Kabuira)

- G336.4+00.2 = PWN
- \bullet 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)
- \bullet 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)

- \bullet 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
- \bullet 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

 \bullet 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