



<b>Publication Year</b>	2015
<b>Acceptance in OA</b>	2020-04-21T08:36:22Z
<b>Title</b>	VizieR Online Data Catalog: SN 2011dh. The first two years (Ergon+, 2015)
<b>Authors</b>	Ergon, M., Jerkstrand, A., Sollerman, J., ELIAS DE LA ROSA, NANCY DEL CARMEN, Fransson, C., Fraser, M., PASTORELLO, Andrea, Kotak, R., Taubenberger, S., TOMASELLA, Lina, Valenti, S., Benetti, S., Helou, G., Kasliwal, M. M., Maund, J., Smartt, S. J., Spyromilio, J.
<b>Handle</b>	<a href="http://hdl.handle.net/20.500.12386/24140">http://hdl.handle.net/20.500.12386/24140</a>
<b>Journal</b>	VizieR Online Data Catalog



J/A+A/580/A142 SN 2011dh. The first two years (Ergon+, 2015)

The Type IIb SN 2011dh.

Two years of observations and modelling of the lightcurves.

Ergon M., Jerkstrand A., Sollerman J., Elias-Rosa N., Fransson C., Fraser M., Pastorello A., Kotak R., Taubenberger S., Tomasella L., Valenti S., Benetti S., Helou G., Kasliwal M.M., Maund J., Smartt S.J., Spyromilio J.

&lt;Astron. Astrophys. 580, A142 (2015)&gt;

[=2015A&A...580A.142E](#)

ADC\_Keywords: Supernovae ; Photometry, UBVRI ; Photometry, ugriz ; Photometry, infrared

Keywords: supernovae: individual: SN 2008ax - supernovae: individual: SN 2011dh - galaxies: individual: M 51 - supernovae: general - supernovae: individual: SN 1993J

**Abstract:**

We present optical and near-infrared (NIR) photometry and spectroscopy as well as modelling of the lightcurves of the Type IIb supernova (SN) 2011dh. Our extensive dataset, for which we present the observations obtained after day 100, spans two years, and complemented with Spitzer mid-infrared (MIR) data, we use it to build an optical-to-MIR bolometric lightcurve between days 3 and 732.

**Description:**

All data for the first 100 days (from Paper I, Ergon et al., [2014A&A...562A..17E](#)) and JC UBVRI, SDSS ugriz and 2MASS JHK magnitudes after day 100 and pseudo-bolometric UV-MIR bolometric luminosity before day 400 for SN 2011dh.

**Objects:**

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RA      (2000)  DE      Designation(s)
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13 30 05.12 +47 10 11.55 SN 2011dh = SN 2011dh
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**File Summary:**

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
<a href="#">tablec4.dat</a>	114	157	*Johnson-Cousins UBVRI magnitudes for SN 2011dh
<a href="#">tablec5.dat</a>	114	70	*SDSS ugriz magnitudes for SN 2011dh
<a href="#">tablec6.dat</a>	82	33	*2MASS JHK magnitudes for SN 2011dh
<a href="#">tablec9.dat</a>	48	214	*Bolometric luminosity for SN 2011dh

**Note on table\*.dat:** Compiled data for all the tables. Data of paper I (Ergon et al., 2014, Cat. [J/A+A/562/A17](#) for data of the first 100 days) plus this paper data (after day 100).

**See also:**

[J/A+A/562/A17](#) : SN 2011dh - The first 100 days (Ergon+, 2014)

**Byte-by-byte Description of file: [tablec4.dat](#)**

Bytes	Format	Units	Label	Explanations
1-	8	F8.2	<a href="#">d</a>	Epoch Epoch (JD-2400000)
11-	16	F6.2	<a href="#">d</a>	Phase [3/733] Days since explosion
19-	24	F6.3	<a href="#">mag</a>	? Johnson-Cousins U magnitude <a href="#">(1)</a>
27-	32	F6.3	<a href="#">mag</a>	? Johnson-Cousins U magnitude error
35-	40	F6.3	<a href="#">mag</a>	? Johnson-Cousins B magnitude <a href="#">(1)</a>
43-	48	F6.3	<a href="#">mag</a>	? Johnson-Cousins B magnitude error
51-	56	F6.3	<a href="#">mag</a>	? Johnson-Cousins V magnitude <a href="#">(1)</a>
59-	64	F6.3	<a href="#">mag</a>	? Johnson-Cousins V magnitude error
67-	72	F6.3	<a href="#">mag</a>	? Johnson-Cousins R magnitude <a href="#">(1)</a>
75-	80	F6.3	<a href="#">mag</a>	? Johnson-Cousins R magnitude error
83-	88	F6.3	<a href="#">mag</a>	? Johnson-Cousins I magnitude <a href="#">(1)</a>
91-	96	F6.3	<a href="#">mag</a>	? Johnson-Cousins I magnitude error
99-114	A16	---	Tel	Telescope/Instrument <a href="#">(G1)</a>

**Note (1):** Colour-corrected U and S-corrected BVRI Johnson-Cousins magnitudes.

**Byte-by-byte Description of file: [tablec5.dat](#)**

Bytes	Format	Units	Label	Explanations
1- 8	F8.2	<a href="#">d</a>	Epoch	Epoch (JD-2400000)
11- 16	F6.2	<a href="#">d</a>	Phase	[3/716] Days since explosion
19- 24	F6.3	<a href="#">mag</a>	umag	? SDSS u magnitude ( <a href="#">2</a> ).
27- 32	F6.3	<a href="#">mag</a>	e_umag	? SDSS u magnitude error
35- 40	F6.3	<a href="#">mag</a>	gmag	? SDSS g magnitude ( <a href="#">2</a> ).
43- 48	F6.3	<a href="#">mag</a>	e_gmag	? SDSS g magnitude error
51- 56	F6.3	<a href="#">mag</a>	rmag	? SDSS r magnitude ( <a href="#">2</a> ).
59- 64	F6.3	<a href="#">mag</a>	e_rmag	? SDSS r magnitude error
67- 72	F6.3	<a href="#">mag</a>	imag	? SDSS i magnitude ( <a href="#">2</a> ).
75- 80	F6.3	<a href="#">mag</a>	e_imag	? SDSS i magnitude error
83- 88	F6.3	<a href="#">mag</a>	zmag	? SDSS z magnitude ( <a href="#">2</a> ).
91- 96	F6.3	<a href="#">mag</a>	e_zmag	? SDSS z magnitude error
99-114	A16	---	Tel	Telescope/Instrument ( <a href="#">G1</a> ).

**Note (2):** Colour-corrected u and S-corrected ugriz (unprimed) SDSS magnitudes.

Byte-by-byte Description of file: [tablec6.dat](#)

Bytes	Format	Units	Label	Explanations
1- 8	F8.2	<a href="#">d</a>	Epoch	Epoch (JD-2400000)
11- 16	F6.2	<a href="#">d</a>	Phase	[3/381] Days since explosion
19- 24	F6.3	<a href="#">mag</a>	Jmag	? 2MASS J magnitude ( <a href="#">3</a> ).
27- 32	F6.3	<a href="#">mag</a>	e_Jmag	? 2MASS J magnitude error
35- 40	F6.3	<a href="#">mag</a>	Hmag	2MASS H magnitude ( <a href="#">3</a> ).
43- 48	F6.3	<a href="#">mag</a>	e_Hmag	2MASS H magnitude error
51- 56	F6.3	<a href="#">mag</a>	Kmag	? 2MASS K magnitude ( <a href="#">3</a> ).
59- 64	F6.3	<a href="#">mag</a>	e_Kmag	? 2MASS K magnitude error
67- 82	A16	---	Tel	Telescope/Instrument ( <a href="#">G1</a> ).

**Note (3):** S-corrected JHK 2MASS magnitudes.

Byte-by-byte Description of file: [tablec9.dat](#)

Bytes	Format	Units	Label	Explanations
1- 8	F8.2	<a href="#">d</a>	Epoch	Epoch (JD-2400000)
11- 16	F6.2	<a href="#">d</a>	Phase	[4/400] Days since explosion
19- 24	F6.3	<a href="#">10+34W</a>	Lbol	Luminosity ( <a href="#">4</a> ).
27- 32	F6.3	<a href="#">10+34W</a>	e_Lbol	Luminosity error
35- 40	F6.3	<a href="#">10+34W</a>	s_Lbol	Systematic error (Low value) ( <a href="#">5</a> ).
43- 48	F6.3	<a href="#">10+34W</a>	E_Lbol	Systemetic error (High value) ( <a href="#">5</a> ).

**Note (4):** Pseudo-bolometric UV-MIR (0.19-5 $\mu$ m) luminosity, in  $10^{41}$ erg/s

**Note (5):** Systematic error arising from the distance and extinction.

#### Global Notes:

**Note (G1):** the telescopes used for the photometry are:

AS-1.82m/AFOSC = Asiago Copernico 1.82m telescope  
AS-Schmidt/SBIG = Asiago 67\*92cm Schmidt telescope  
AT/ANDOR = Albanova 1.0m telescope (Stockholm University)  
CA-2.2m/CAFOS = Calar Alto 2.2m telscope  
CA-3.5m/O2000 = Calar Alto 3.5m telscope  
CANTAB/BIGST8 = Cantabria amateur observations  
FTN/FS02 = Faulkes Telescope North  
LBT/LUCIFER = Large Binocular Telescope  
LT/RATCam = Liverpool Telescope  
MONTCAB/BIGST8 = Montcabrer amateur observations  
NOT/ALFOSC = Nordic Optical Telescope  
NOT/NOTCAM = Nordic Optical Telescope  
TCS/CAIN = Telescopio Carlos Sanchez  
TJO/MEIA = Telescopi Joan Oro  
TNG/LRS = Telescopie Nazionale Galileo  
TNG/NICS = Telescopie Nazionale Galileo  
UKIRT/WFCAM = United Kingdom InfraRed Telescope (Hawaii)  
WHT/LIRIS = William Herschel Telescope

#### Acknowledgements:

Mattias Ergon, mattias.ergon(at)astro.su.se

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(End) Mattias Ergon [Stockholm University], Patricia Vannier [CDS] 09-Jul-2015

The document above follows the rules of the [Standard Description for Astronomical Catalogues](#): from this documentation it is possible to generate *f77* program to load files [into arrays](#) or [line by line](#)

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