Table 2: Sample of SNe type II

SN	Distance	REF*	Explosio	n	m REF*	E(B-V)	REF*	$E(B-V)^x$	Host
	modulus	(μ)	epoch		(explosion)	(host)	(E(B-V) host)	M.W.	galaxy
2013ai	32.20 0.15	a	2456348.00	5.0	w	0.15 0.08	w	0.08	NGC2207
2013bu	30.79 0.08	b	2456399.80	4.5	w	0.00 0.00	w	0.08	NGC7331
2013fs	33.45 0.15	a	2456571.12	0.5	11	0.00 0.00	w	0.04	NGC7610
lsq13dpa	35.08 0.15	a	2456642.70	2.0	w	0.00 0.00	w	0.04	LCSBS1492O
2014cy	31.87 0.15	a	2456900.00	1.0	w	0.00 0.00	w	0.05	NGC7742
2014dw	32.46 0.15	a	2456958.00	10.0	w	0.11 0.06	w	0.11	NGC3568
lsq14gv	35.15 0.15	a	2456674.80	2.0	w	0.00 0.00	w	0.06	2MASX J10541092-1501228
ASASSN-14dq	33.26 0.15	a	2456841.50	5.5	w	0.00 0.00	w	0.07	UGC11860
ASASSN-14gm	31.74 0.15	a	2456901.00	1.5	w	0.00 0.00	w	0.10	NGC0337
ASASSN-14gm	33.83 0.15	a	2456970.00	3.0	w	0.25 0.12	w	0.04	CGCG521-075
ASASSN-14ha	29.53 0.50	a	2456910.50	1.5	w	0.00 0.00	w	0.01	NGC1566
2015W	33.74 0.15	a	2457025.00	10.0	w	0.00 0.00	w	0.15	UGC03617
2013w	31.90 0.08	d	2456340.00	1.0	d	0.02 0.07	d	0.02	1430+101
2013ab 2013by	30.81 0.15	a	2456404.00	2.0	x	0.00 0.00	x	0.23	ESO138-G010
2013by 2013ej	29.79 0.20	c	2456497.00	1.0		0.00 0.00		0.06	MESSIER074
2013ej 2014G	31.90 0.15	a	2456668.35	1.0	y w	0.20 0.00	y kk	0.00	NGC3448
1986L	31.72 0.20	e e	2446708.50	6.0	m	0.00 0.02	m	0.03	NGC1559
1979C	31.01 0.09	f	2443970.00	15.0	in s	0.16 0.05		0.03	NGC1339 NGC4321
							gg		
1990E	31.71 0.27	g	2447932.00	5.0	z	0.38 0.00	z	0.02	NGC1035
1991al	34.28 0.54	h	2448444.00	9.0	m	0.04 0.02	m	0.05	2MASXJ19422191-5506275
1992af	34.37 0.15	a	2448792.00	6.0	m	0.00 0.09	m	0.05	ESO340-G038
1992ba	31.07 0.30	i	2448889.00	8.0	m	0.02 0.01	m	0.05	NGC2082
1993A	35.68 0.17	h	2448996.00	9.0	m	0.00 0.00	m	0.15	2MASXJ07391822-6203095
1993K	32.89 0.15	a	2449066.00	9.0	m	0.12 0.06	m	0.06	NGC2223
1993S	35.32 0.14	h	2449131.00	4.0	m	0.00 0.08	m	0.01	2MASXJ22522390-4018432
1999ca	$32.82\ 0.15$	a	2451278.00	7.0	m	0.08 0.05	m	0.10	NGC3120
1999cr	$34.56 \ 0.18$	h	2451248.00	7.0	m	$0.10\ 0.05$	m	0.09	ESO576-G034
1999em	$30.34\ 0.07$	j	2451475.00	1.0	i	0.06 0.02	m	0.04	NGC1637
1999gi	$30.34\ 0.14$	i	2451518.20	3.1	hh	0.19 0.09	hh	0.01	NGC3184
1999br	$31.60\ 0.43$	i	2451278.00	3.0	jj	$0.00\ 0.01$	m	0.02	SDSSJ130039.25+023002.5
2000dc	$32.93\ 0.14$	h	2451762.00	4.0	aa	0.00 0.00	aa	0.07	ESO527-G019
2001fa	33.90 0.19	k	2452198.00	3.0	aa	0.00 0.00	aa	0.07	NGC0673
2001do	$33.39\ 0.15$	a	2452133.00	2.0	aa	0.00 0.00	aa	0.17	UGC11459
2001cy	$33.01\ 0.12$	h	2452085.00	6.0	aa	0.00 0.00	aa	0.19	UGC11927
2001X	$31.59\ 0.11$	h	2451963.00	5.0	ee	0.07 0.04	ee	0.04	NGC5921
2002 gd	$32.90\ 0.21$	h	2452552.00	2.0	$^{ m dd}$	$0.00\ 0.02$	m	0.06	NGC7537
2002 gw	$33.07 \ 0.15$	a	2452560.00	5.0	m	$0.00\ 0.02$	m	0.02	NGC0922
2002hj	$34.91 \ 0.15$	a	2452563.00	7.0	m	$0.00\ 0.04$	m	0.10	NPM1G+04.0097
2002hh	$28.36 \ 0.09$	h	2452577.50	10.0	ff	0.70 0.00	ff	0.30	NGC6946
2002hx	$35.49\ 0.15$	a	2452583.00	9.0	m	$0.00\ 0.07$	m	0.05	PCG23727
2003B	$30.94\ 0.15$	a	2452617.00	11.0	m	0.06 0.03	m	0.02	NGC1097
2003E	34.01 0.28	t	2452635.00	7.0	m	$0.00\ 0.00$	m	0.04	ESO485-G004
2003T	$35.36 \ 0.15$	a	2452655.00	10.0	m	$0.00\ 0.00$	m	0.03	UGC4864
2003Z	$31.70\ 0.15$	a	2452665.00	4.5	$^{ m dd}$	$0.00\ 0.00$	$^{ m dd}$	0.03	NGC2742
2003bl	$34.07 \ 0.30$	t	2452700.00	3.0	m	$0.00\ 0.09$	m	0.02	NGC5374
2003bn	$33.55 \ 0.15$	a	2452695.00	3.0	m	$0.00\ 0.02$	m	0.06	2MASXJ10023529
2003cn	$34.81\ 0.28$	t	2452720.00	4.0	m	$0.00\ 0.04$	m	0.02	IC0849
2003cx	$35.91\ 0.15$	a	2452729.00	5.0	m	$0.00\ 0.05$	m	0.08	_
2003ef	33.96 0.18	v	2452760.00	9.0	m	0.00 0.00	m	0.04	NGC4708
2003fb	$34.36 \ 0.15$	a	2452777.00	6.0	m	0.00 0.06	m	0.16	UGC11522
2003hd	$36.02\ 0.15$	a	2452858.00	5.0	m	$0.00\ 0.06$	m	0.01	MCG-04-05-010
2003hf	35.64 0.15	a	2452863.00	2.0	aa	0.00 0.00	aa	0.02	UGC10586
2003hg	33.31 0.28	t	2452866.00	5.0	m	0.00 0.00	m	0.06	NGC7771
2003hl	32.16 0.10	h	2452869.00	5.0	m	0.00 0.00	m	0.06	NGC0772
2003hn	31.14 0.26	i	2452857.00	4.0	i	0.12 0.03	m	0.01	6dFJ0344359-443750
2003ho	33.80 0.15	a	2452848.00	7.0	m	2.36 0.40	m	0.03	ESO235-G58

a: NED , b: Kanbur et al. 2003, c: Fraser et al. 2014, d: Bose et al. 2015, e: Brown et al. 2010, f: Ferrarese et al. 1996, g: Schmidt, Kirshner & Eastman 1992, h: Poznanski et al. 2009, i: Jones et al. 2009, j: Leonard et al. 2003, k: Wang et al. 2006, l: Takats & Vinko 2006, m: Anderson et al. 2014, n: Takats & Vinko 2012, o: Bose & Kumar 2014, p: Freedman et al. 2001, q: Takats et al. 2014, r: Takats et al. 2015, s: Gall et al. 2015, t: Olivares et al. 2010, u: Mould & Sakai 2008, v: Rest et al. 2014, w: This paper, x: Valenti et al. 2015, y: Valenti et al. 2014, z: Benetti et al. 1994, aa: Faran et al. 2014b, bb: Inserra et al. 2013, cc: Taddis et al. 2013, dd: Spiro et al. 2014, ee: Faran et al. 2014a, ff: Pozzo et al. 2006, gg: de Vaucouleurs et al. 1981, hh: Leonard et al. 2002, jj: Pastorello et al. 2004, kk: Terreran in prep., ll: Yaron in prep., mm: Gandhi et al. 2013, nn: Maguire et al. 2010, oo: Pastorello et al. 2009, pp: Inserra et al. 2011, qq: Tomasella et al. 2013, rr: Barbarino et al. 2015, ss: Inserra et al. 2012, tt: Fraser et al. 2011, uu: Gal-Yam et al. 2011, vv: Elias-Rosa et al. 2011, ww: Dessart et al. 2008, xx: Dall'Ora et al. 2014, zz: Poznanski et al. 2015, ab: Elias-Rosa et al. 2010, ac: Zwitter, Munari & Moretti 2004, ad: Quimby et al. 2007, ae: Andrews et al. 2011,

Table 2: continued ..

					Table 2:	continued			
SN	Distance	REF*	Explosio	n	m REF*	E(B-V)	REF*	$E(B-V)^x$	Host
	modulus	(μ)	epoch		(explosion)	(host)	(E(B-V) host)	M.W.	galaxy
2003ib	35.12 0.15	a	2452891.00	5.0	m	0.00 0.09	m	0.04	MCG-04-48-15
2003ip	33.76 0.28	t	2452897.00	4.0	m	$0.04\ 0.03$	m	0.06	UGC00327
2003iq	32.16 0.10	h	2452920.00	2.0	m	0.00 0.00	m	0.06	NGC0772
2004du	33.94 0.02	h	2453228.00	2.0	aa	0.00 0.00	ee	0.08	UGC11683
2004et	28.36 0.09	h	2453270.50	4.0	nn	$0.11\ 0.05$	ac	0.30	NGC6946
2004er	33.83 0.15	a	2453272.20	2.0	m	0.11 0.05	m	0.02	UGCA036
2004fx	32.71 0.15	a	2453304.00	4.0	m	0.00 0.03	m	0.09	MCG-02-14-3
2005J	34.06 0.15	a	2453383.20	7.0	m	0.07 0.10	m	0.02	NGC4012
2005K	35.26 0.15	a	2453370.20	7.0	m	0.00 0.00	m	0.03	NGC2923
2005af	27.90 0.10	u	2453370.20	15.0	m	0.00 0.00	m	0.16	NGC4945
	34.77 0.15	u a	2453608.00	4.0		0.00 0.04	aa	0.16	UGC12177
2005dq 2005cs	29.26 0.33	a l	2453549.00	0.5	aa	0.00 0.00		0.07	NGC5194
					00		00		
2005dx	35.16 0.15	a	2453616.30	7.0	m	0.00 0.09	m	0.02	ESO550-G002
2005dz	34.44 0.15	a	2453620.00	4.0	m	0.00 0.04	m	0.07	UGC12717
2006Y	35.70 0.06	m	2453767.00	4.0	m	0.00 0.04	m	0.11	ESO207-G026
2006iw	35.49 0.15	a	2454011.10	1.0	m	0.00 0.04	m	0.04	2MASXJ23211915+0015329
2006ai	34.01 0.14	m	2453782.30	5.0	m	0.00 0.03	m	0.11	ESO005-G009
2006bp	$31.58 \ 0.18$	n	2453834.50	2.0	ad	$0.40\ 0.10$	ww	0.03	NGC3953
2007W	$33.14\ 0.15$	a	2454137.30	7.0	m	$0.00\ 0.03$	m	0.05	NGC5105
2007U	$35.12\ 0.15$	a	2454135.10	6.0	m	$0.00\ 0.12$	m	0.05	ESO552-G065
2007X	$32.62\ 0.15$	a	2454144.30	5.0	m	$0.12\ 0.06$	m	0.06	ESO385-G032
2007ab	$34.97 \ 0.15$	a	2454124.30	10.0	m	$0.00\ 0.00$	m	0.23	MCG-01-43-2
2007it	30.35 0.36	a	2454349.00	10.0	ae	$0.00\ 0.00$	ae	0.42	NGC5530
2007ld	$35.50\ 0.15$	a	2454378.00	8.0	m	$0.00\ 0.05$	m	0.08	SDSSJ204929.40+000016.8
2007od	$31.95 \ 0.15$	a	2454404.00	5.0	pp	0.00 0.02	m	0.03	UGC12846
2008M	$32.42\ 0.15$	a	2454472.20	9.0	m	$0.00\ 0.02$	m	0.04	ESO121-26
2008K	35.35 0.15	a	2454478.20	4.0	m	$0.00\ 0.02$	m	0.03	ESO504-G005
2008aw	33.21 0.15	a	2454518.20	10.0	m	$0.10\ 0.05$	m	0.04	NGC4939
2008bu	34.81 0.15	a	2454567.20	7.0	m	$0.00\ 0.04$	m	0.37	ESO586-G2
2008fq	33.38 0.15	a	2454720.00	5.0	aa	0.46 0.10	сс	0.06	NGC6907
2008ho	33.07 0.15	a	2454793.20	5.0	m	0.05 0.03	m	0.02	NGC0922
2008if	33.54 0.15	a	2454808.30	5.0	m	0.07 0.04	m	0.03	MCG-01-24-010
2008in	30.45 0.10	0	2454825.60	1.0	0	0.03 0.02	m	0.02	MESSIER061
2009N	31.67 0.11	q	2454848.10	1.2	q	0.03 0.02	m	0.02	NGC4487
2009bw	31.44 0.15	a	2454916.50	3.0	ss	0.08 0.04	SS	0.20	UGC02890
2009bw 2009dd	30.91 0.15	a	2454925.50	5.0	bb	0.43 0.10	bb	0.02	NGC4088
2009hd	29.86 0.08		2455002.00	20.0	vv	1.20 0.07		0.03	SDSSJ112017.26+125829.1
2009id 2009ib	31.48 0.31	P	2455041.30	2.0		0.13 0.05	vv	0.03	NGC1559
		r			r		r		
2009js	31.57 0.15	a	2455110.00	5.5	mm	0.05 0.16	mm	0.31	NGC0918
2009kr	32.09 0.15	a	2455140.50	2.0	w	0.01 0.00	ab	0.06	NGC1832
2009md	31.66 0.15	a	2455162.00	8.0	tt	0.10 0.05	tt	0.02	NGC3389
2010id	34.15 0.15	a	2455452.00	2.0	uu	0.00 0.00	uu	0.05	NGC7483
2012A	29.96 0.15	a	2455932.50	2.0	qq	0.01 0.00	pp	0.03	NGC3239
2012aw	29.96 0.09	О	2456002.50	4.0	ad	0.06 0.02	xx	0.02	SDSSJ104357.53+114056.0
2012ec	$31.32\ 0.15$	a	2456143.00	5.0	rr	$0.12\ 0.05$	rr	0.02	NGC1084
lsq13cuw	36.38 0.13	s	2456593.42	0.7	S	$0.00\ 0.00$	S	0.02	SDSSJ023957.37-083123.8
OGLE13-005	$37.42\ 0.15$	a	2456241.70	2.9	zz	0.00 0.00	zz	0.03	=
OGLE13-011	$36.66 \ 0.15$	a	2456298.25	6.5	zz	0.00 0.00	zz	0.05	_
OGLE13-045	$38.25\ 0.15$	a	2456483.40	2.5	zz	$0.00\ 0.00$	zz	0.03	_
OGLE13-046	$37.42\ 0.15$	a	2456489.90	2.0	zz	$0.00\ 0.00$	zz	0.03	_
OGLE13-047	37.09 0.15	a	2456505.30	4.5	zz	0.00 0.00	zz	0.03	_
OGLE13-048	37.09 0.15	a	2456489.40	1.5	zz	0.00 0.00	zz	0.04	_
OGLE13-135	36.97 0.15	a	2456620.65	2.0	zz	0.00 0.00	zz	0.16	_
OGLE13-144	36.19 0.15	a	2456635.70	6.0	zz	0.00 0.00	zz	0.11	_
OGLE14-004	35.54 0.15	a	2456660.30	2.5	zz	0.00 0.00	zz	0.07	_
OGLE14-009	36.93 0.15	a	2456688.20	1.5	zz	0.00 0.00	zz	0.07	_
						*			

a: NED , b: Kanbur et al. 2003, c: Fraser et al. 2014, d: Bose et al. 2015, e: Brown et al. 2010, f: Ferrarese et al. 1996, g: Schmidt, Kirshner & Eastman 1992, h: Poznanski et al. 2009, i: Jones et al. 2009, j: Leonard et al. 2003, k: Wang et al. 2006, l: Takats & Vinko 2006, m: Anderson et al. 2014, n: Takáts & Vinkó 2012, o: Bose & Kumar 2014, p: Freedman et al. 2001, q: Takáts et al. 2014, r: Takats et al. 2015, s: Gall et al. 2015, t: Olivares et al. 2010, u: Mould & Sakai 2008, v: Rest et al. 2014, w: This paper, x: Valenti et al. 2015, y: Valenti et al. 2014, z: Benetti et al. 1994, aa: Faran et al. 2014b, bb: Inserra et al. 2013, cc: Taddia et al. 2013, dd: Spiro et al. 2014, ee: Faran et al. 2014a, ff: Pozzo et al. 2006, gg: de Vaucouleurs et al. 1981, hh: Leonard et al. 2002, jj: Pastorello et al. 2004, kk: Terreran in prep., ll: Yaron in prep., mm: Gandhi et al. 2013, nn: Maguire et al. 2010, oo: Pastorello et al. 2009, pp: Inserra et al. 2011, qq: Tomasella et al. 2013, rr: Barbarino et al. 2015, ss: Inserra et al. 2012, tt: Fraser et al. 2011, uu: Gal-Yam et al. 2011, vv: Elias-Rosa et al. 2011, ww: Dessart et al. 2008, xx: Dall'Ora et al. 2014, zz: Poznanski et al. 2015, ab: Elias-Rosa et al. 2010, ac: Zwitter, Munari & Moretti 2004, ad: Quimby et al. 2007, ae: Andrews et al. 2011,

Table D1: SN 2013fs: Photometric Data

14510 211 51	. 201010. 1 11000	Jinetire Bata							
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-10-07	2456572.503	$14.267 \ 0.069$	uw2	Swift	2013-10-30	2456596.070	17.704 0.100	uw1	Swift
2013-10-08	2456574.310	$14.275 \ 0.070$	uw2	Swift	2013-10-09	2456575.478	$14.826 \ 0.050$	us	Swift
2013-10-09	2456575.481	$14.575 \ 0.070$	uw2	Swift	2013-10-10	2456576.412	$14.922 \ 0.050$	us	Swift
2013-10-10	2456576.414	$15.028 \ 0.071$	uw2	Swift	2013-10-11	2456576.907	$14.905 \ 0.051$	us	Swift
2013-10-11	2456576.909	$14.927 \ 0.070$	uw2	Swift	2013-10-12	2456577.808	$14.950 \ 0.053$	us	Swift
2013-10-12	2456577.814	15.151 0.071	uw2	Swift	2013-10-13	2456579.216	15.094 0.053	us	Swift
2013-10-13	2456579.223	15.577 0.073	uw2	Swift	2013-10-15	2456580.577	15.183 0.056	us	Swift
2013-10-15	2456580.580	15.841 0.075	uw2	Swift	2013-10-18	2456584.147	15.516 0.057	us	Swift
2013-10-18	2456584.149	16.567 0.079	uw2	Swift	2013-10-19	2456584.849	15.575 0.055	us	Swift
2013-10-19	2456584.853	16.802 0.078	uw2	Swift	2013-10-20	2456585.990	15.680 0.056	us	Swift
2013-10-20	2456585.993	16.899 0.079	uw2	Swift	2013-10-21	2456586.892	15.783 0.056	us	Swift
2013-10-21	2456586.895	17.081 0.080	uw2	Swift	2013-10-22	2456588.087	15.895 0.060	us	Swift
2013-10-22	2456588.093	17.241 0.086	uw2	Swift	2013-10-23	2456588.953	15.915 0.059	us	Swift
2013-10-23	2456588.956	17.441 0.088	uw2	Swift	2013-10-24	$2456589.859 \\ 2456590.997$	16.082 0.060	us	Swift
2013-10-24	2456589.862	17.530 0.089	uw2	Swift	2013-10-25		16.122 0.059	us	Swift
2013-10-25 2013-10-27	2456591.000 2456593.443	17.678 0.089	$uw2 \\ uw2$	$Swift \\ Swift$	2013-10-26 2013-10-27	$2456591.891 \\ 2456593.441$	$16.218 \ 0.073$ $16.521 \ 0.065$	us	$Swift \\ Swift$
		18.144 0.102						us	
2013-10-28	2456593.646	18.183 0.104	uw2	Swift	2013-10-28	2456593.644	16.552 0.066	us	Swift
2013-10-29 2013-10-30	2456595.211 2456596.075	18.254 0.106 18.387 0.110	$uw2 \\ uw2$	$Swift \\ Swift$	2013-10-29 2013-10-30	$2456595.207 \\ 2456596.072$	$16.655 \ 0.067$ $16.718 \ 0.069$	us	$Swift \\ Swift$
	2456572.509	14.493 0.060					15.593 0.019	U	1 m 0-08
2013-10-07 2013-10-08	2456574.317	14.288 0.059	$um2 \\ um2$	$Swift \\ Swift$	2013-10-07 2013-10-08	$2456572.773 \\ 2456573.655$	15.371 0.030	U	1m0-08
2013-10-08	2456575.426	14.492 0.061	um2	Swift	2013-10-08	2456574.651	15.340 0.013	U	1m0-08
2013-10-09	2456576.395	14.861 0.062	um2	Swift	2013-10-09	2456575.642	15.329 0.022	U	1m0-08
2013-10-10	2456576.912	14.821 0.061	um2	Swift $Swift$	2013-10-10	2456576.742	15.308 0.013	U	1m0-08
2013-10-11	2456577.824	15.021 0.064	um2	Swift	2013-10-11	2456583.609	15.725 0.012	U	1m0-08
2013-10-12	2456579.232	15.314 0.068	um2	Swift $Swift$	2013-10-18	2456585.619	15.877 0.033	U	1m0-08
2013-10-15	2456580.582	15.642 0.074	um2	Swift	2013-10-20	2456586.643	15.932 0.027	U	1m0-08
2013-10-13	2456584.151	16.450 0.085	um2	Swift	2013-10-21	2456587.729	16.042 0.027	U	1m0-08
2013-10-19	2456584.858	16.659 0.078	um2	Swift	2013-10-22	2456588.667	16.079 0.041	U	1m0-08
2013-10-20	2456585.996	16.872 0.083	um2	Swift	2013-10-25	2456590.658	16.372 0.055	U	1m0-08
2013-10-21	2456586.899	16.992 0.082	um2	Swift	2013-10-26	2456591.703	16.344 0.016	$\stackrel{\circ}{U}$	1m0-08
2013-10-22	2456588.100	17.279 0.098	um2	Swift	2013-10-27	2456592.692	16.453 0.042	U	1m0-08
2013-10-23	2456588.958	17.261 0.099	um2	Swift	2013-10-28	2456593.591	16.521 0.041	U	1m0-08
2013-10-24	2456589.867	17.534 0.101	um2	Swift	2013-10-29	2456594.649	16.552 0.042	U	1m0-08
2013-10-25	2456591.003	17.693 0.104	um2	Swift	2013-11-02	2456598.701	17.065 0.035	U	1m0-08
2013-10-27	2456593.446	18.008 0.121	um2	Swift	2013-11-06	2456602.593	17.424 0.010	U	1m0-08
2013-10-28	2456593.648	18.141 0.128	um2	Swift	2013-11-10	2456606.672	17.497 0.057	U	1m0-08
2013-10-29	2456595.215	$18.257 \ 0.136$	um2	Swift	2013-11-21	2456617.518	18.119 0.095	U	1m0-05
2013-10-30	2456596.079	18.317 0.138	um2	Swift	2013-12-03	2456629.543	18.795 0.251	U	1m0-09
2013-10-06	2456572.491	$14.699 \ 0.059$	uw1	Swift	2013-12-05	2456631.535	$19.027 \ 0.036$	U	1m0-09
2013-10-08	2456574.292	$14.447 \ 0.057$	uw1	Swift	2013-12-11	2456637.539	18.678 0.411	U	1m0-04
2013-10-09	2456575.476	$14.594\ 0.057$	uw1	Swift	2013-12-14	2456640.672	$18.875 \ 0.474$	U	1m0-08
2013-10-10	2456576.410	$14.824\ 0.058$	uw1	Swift	2013-10-09	2456575.479	$16.086 \ 0.047$	bs	Swift
2013-10-11	2456576.906	$14.805 \ 0.058$	uw1	Swift	2013-10-10	2456576.413	$16.105 \ 0.046$	bs	Swift
2013-10-12	2456577.805	$14.936 \ 0.060$	uw1	Swift	2013-10-11	2456576.908	$16.040 \ 0.047$	bs	Swift
2013-10-13	2456579.242	$15.205 \ 0.060$	uw1	Swift	2013-10-12	2456577.809	$16.029\ 0.050$	bs	Swift
2013-10-15	2456580.576	$15.483\ 0.065$	uw1	Swift	2013-10-13	2456579.218	$16.094\ 0.050$	bs	Swift
2013-10-18	2456584.146	$16.095 \ 0.070$	uw1	Swift	2013-10-15	2456580.578	$16.125 \ 0.053$	bs	Swift
2013-10-19	2456584.848	$16.217 \ 0.068$	uw1	Swift	2013-10-18	2456584.148	$16.316 \ 0.053$	bs	Swift
2013-10-20	2456585.989	$16.376 \ 0.069$	uw1	Swift	2013-10-19	2456584.850	$16.429 \ 0.052$	bs	Swift
2013-10-21	2456586.891	$16.535 \ 0.069$	uw1	Swift	2013-10-20	2456585.991	$16.456 \ 0.052$	bs	Swift
2013-10-22	2456588.085	$16.601 \ 0.076$	uw1	Swift	2013-10-21	2456586.893	$16.510\ 0.051$	bs	Swift
2013-10-23	2456588.952	$16.829\ 0.078$	uw1	Swift	2013-10-22	2456588.089	$16.523 \ 0.055$	bs	Swift
2013-10-24	2456589.857	$16.907 \ 0.079$	uw1	Swift	2013-10-23	2456588.954	$16.554 \ 0.054$	bs	Swift
2013-10-25	2456590.996	$17.080\ 0.080$	uw1	Swift	2013-10-24	2456589.860	$16.607 \ 0.054$	bs	Swift
2013-10-26	2456591.889	$17.333\ 0.115$	uw1	Swift	2013-10-25	2456590.998	$16.572 \ 0.052$	bs	Swift
2013-10-27	2456593.440	$17.425\ 0.091$	uw1	Swift	2013-10-26	2456591.891	$16.802\ 0.207$	bs	Swift
2013-10-28	2456593.643	$17.529\ 0.094$	uw1	Swift	2013-10-27	2456593.442	$16.729 \ 0.055$	bs	Swift
2013-10-29	2456595.205	$17.840\ 0.105$	uw1	Swift	2013-10-28	2456593.644	$16.748 \ 0.056$	bs	Swift

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2013fs: Photometric Data

Date	JD	mag ^(a)	Filter	telescope ^(b)	Date	JD	$mag^{(a)}$	Filter	telescope ^(b)
2013-10-29	2456595.208	16.848 0.056	bs	Swift	2013-12-03	2456629.549	17.310 0.001	g	1m0-04
2013-10-30	2456596.073	16.898 0.057	$^{bs}_{B}$	Swift $1m0-08$	2013-12-04	2456631.283	17.342 0.014	g	1m0-13 1m0-09
2013-10-07	2456572.781 2456573.665	16.270 0.018	B	1m0-08	2013-12-11	2456637.544	17.389 0.009	g	
2013-10-08 2013-10-09	2456574.662	16.103 0.012 16.004 0.028	B	1m0-08	2013-12-14 2013-12-18	2456640.922 2456644.543	17.566 0.005 17.666 0.013	g	1m0-11 1m0-08
2013-10-09	2456575.652	15.984 0.021	B	1m0-08	2013-12-18	2456646.662	17.679 0.003	g	1m0-08
2013-10-10	2456576.752	16.068 0.013	B	1m0-08	2013-12-20	2456674.581	19.365 0.002	$rac{g}{g}$	1m0-08
2013-10-11	2456583.619	16.250 0.034	B	1m0-08	2013-10-09	2456575.449	16.099 0.060	vs	Swift
2013-10-20	2456585.630	16.357 0.015	B	1m0-08	2013-10-10	2456576.394	16.058 0.059	vs	Swift
2013-10-21	2456586.627	16.398 0.016	\overline{B}	1m0-08	2013-10-11	2456576.911	15.978 0.051	vs	Swift
2013-10-22	2456587.739	16.481 0.015	B	1m0-08	2013-10-12	2456577.820	15.976 0.048	vs	Swift
2013-10-23	2456588.678	16.477 0.018	B	1m0-08	2013-10-13	2456579.228	16.000 0.048	vs	Swift
2013-10-25	2456590.682	$16.574\ 0.021$	B	1m0-08	2013-10-15	2456580.581	$16.025 \ 0.065$	vs	Swift
2013-10-26	2456591.714	$16.646 \ 0.012$	B	1m0-08	2013-10-18	2456584.150	16.092 0.063	vs	Swift
2013-10-27	2456592.703	$16.624\ 0.017$	B	1m0-08	2013-10-19	2456584.856	$16.277 \ 0.061$	vs	Swift
2013-10-28	2456593.601	$16.725\ 0.011$	B	1m0-08	2013-10-20	2456585.995	$16.164\ 0.059$	vs	Swift
2013-10-29	2456594.659	$16.720\ 0.035$	B	1m0-08	2013-10-21	2456586.898	$16.288 \ 0.059$	vs	Swift
2013-11-02	2456598.711	$16.931 \ 0.012$	B	1m0-08	2013-10-22	2456588.097	$16.318 \ 0.067$	vs	Swift
2013-11-03	2456599.690	$17.002 \ 0.012$	B	1m0-08	2013-10-23	2456588.957	$16.449\ 0.067$	vs	Swift
2013-11-06	2456602.604	$17.110 \ 0.022$	B	1m0-08	2013-10-24	2456589.865	$16.391 \ 0.065$	vs	Swift
2013-11-10	2456606.683	$17.252 \ 0.012$	B	1m0-08	2013-10-25	2456591.001	$16.428 \ 0.063$	vs	Swift
2013-11-20	2456616.680	$17.601 \ 0.024$	B	1m0-08	2013-10-27	2456593.445	$16.491 \ 0.067$	vs	Swift
2013-11-21	2456617.531	17.568 0.023	B	1m0-05	2013-10-28	2456593.647	16.421 0.066	vs	Swift
2013-12-03	2456629.550	17.807 0.021	B	1m0-09	2013-10-29	2456595.213	16.551 0.069	vs	Swift
2013-12-05	2456631.547	17.972 0.031	B	1m0-09	2013-10-30	2456596.078	16.556 0.069	vs	Swift
2013-12-11	2456637.553	17.951 0.039	B	1m0-04	2013-10-07	2456572.786	16.499 0.016	V	1m0-08
2013-12-14	2456640.662	18.148 0.086	B	1m0-08	2013-10-08	2456573.671	16.274 0.015	V	1m0-08
2013-12-17 2013-12-20	2456643.609	18.223 0.083	B	1m0-08	2013-10-09	2456574.667	16.103 0.029	$V \ V$	1m0-08
2013-12-20	2456646.639	18.264 0.040 18.755 0.015	B	1m0-08 1m0-08	2013-10-10 2013-10-18	$2456575.657 \\ 2456583.624$	16.020 0.025 16.099 0.019	V = V	1m0-08 1m0-08
2013-12-23	$2456649.622 \\ 2456672.566$	20.103 0.039	B	1m0-08	2013-10-18	2456585.635	16.223 0.014	$\stackrel{\scriptstyle V}{V}$	1m0-08
2014-01-19	2456676.564	20.307 0.043	B	1m0-08	2013-10-20	2456586.632	16.220 0.017	$\stackrel{\scriptstyle V}{V}$	1m0-08
2013-10-07	2456572.637	16.568 0.004	g	1m0-08	2013-10-21	2456588.683	16.310 0.024	$\stackrel{\prime}{V}$	1m0-08
2013-10-08	2456573.692	16.263 0.004	g	1m0-08	2013-10-25	2456590.716	16.397 0.011	$\stackrel{\cdot}{V}$	1m0-08
2013-10-09	2456574.697	16.179 0.003	g	1m0-08	2013-10-26	2456591.719	16.412 0.043	$\stackrel{\cdot}{V}$	1m0-08
2013-10-11	2456576.760	16.083 0.008	g	1m0-08	2013-10-27	2456592.708	16.435 0.017	\overline{V}	1m0-08
2013-10-12	2456577.761	16.023 0.009	g	1m0-08	2013-10-28	2456593.606	16.416 0.069	V	1m0-08
2013-10-18	2456583.636	16.242 0.011	g	1m0-08	2013-10-29	2456594.665	16.449 0.020	V	1m0-08
2013-10-19	2456584.647	$16.338 \ 0.015$	g	1m0-08	2013-11-02	2456598.717	$16.531\ 0.015$	V	1m0-08
2013-10-20	2456585.599	$16.313\ 0.004$	g	1m0-08	2013-11-03	2456599.696	$16.619\ 0.017$	V	1m0-08
2013-10-21	2456586.596	$16.369 \ 0.003$	g	1m0-08	2013-11-06	2456602.609	$16.596\ 0.014$	V	1m0-08
2013-10-22	2456587.706	$16.416 \ 0.009$	g	1m0-08	2013-11-10	2456606.688	$16.610\ 0.014$	V	1m0-08
2013-10-23	2456588.734	$16.486 \ 0.005$	g	1m0-08	2013-11-20	2456616.686	$16.736\ 0.018$	V	1m0-08
2013-10-26	2456591.596	$16.516 \ 0.001$	g	1m0-08	2013-11-21	2456617.537	$16.745 \ 0.013$	V	1m0-05
2013-10-27	2456592.585	$16.587 \ 0.005$	g	1m0-08	2013-12-03	2456629.558	$16.846\ 0.013$	V	1m0-09
2013-10-28	2456593.630	$16.593 \ 0.008$	g	1m0-08	2013-12-05	2456631.554	$16.865 \ 0.011$	V	1m0-09
2013-10-29	2456594.610	16.641 0.002	g	1m0-08	2013-12-11	2456637.559	17.009 0.014	V	1m0-04
2013-11-02	2456598.678	16.803 0.004	g	1m0-08	2013-12-14	2456640.669	17.026 0.028	V	1m0-08
2013-11-03	2456599.669	16.778 0.002	g	1m0-08	2013-12-20	2456646.645	17.098 0.028	V	1m0-08
2013-11-06	2456602.671	16.884 0.005	g	1m0-08	2013-12-23	2456649.629	17.353 0.029	V	1m0-08
2013-11-10	2456606.651	16.969 0.002	g	1m0-08	2014-01-15	2456672.574	18.960 0.111	V	1m0-08
2013-11-12	2456608.686	17.007 0.009	g	1m0-08	2014-01-19	2456676.570	19.023 0.070	V	1m0-08
2013-11-15	2456611.694	17.065 0.010	g	1m0-08	2013-10-07	2456572.643	16.810 0.005	r	1m0-08
2013-11-20	2456616.608	17.142 0.002	g	1m0-08	2013-10-08	2456573.732	16.404 0.001	r	1m0-08
2013-11-20	2456616.911	17.164 0.013 17.191 0.010	g	1m0-11	2013-10-09 2013-10-11	2456574.702	16.276 0.011	r	1m0-08 1m0-08
2013-11-25	2456621.519		g	1m0-09		2456576.765	16.096 0.011	r	
2013-11-28 2013-11-28	2456624.530	17.182 0.011	g	1m0-04 1m0-12	2013-10-12 2013-10-18	2456577.766	$16.046 \ 0.007$ $16.102 \ 0.001$	r	1m0-08 1m0-08
2013-11-28	2456625.272 2456626.523	17.245 0.025 17.293 0.003	g	1m0-12 1m0-04	2013-10-18	$2456583.641 \\ 2456584.653$	16.102 0.001	r	1m0-08 1m0-08
2013-11-30	2456627.523	17.248 0.006	g	1m0-04 1m0-09	2013-10-19	2456585.604	16.135 0.002	$r \\ r$	1m0-08
2010-12-01	2400027.023	11.240 0.000	g	11110-09	2013-10-20	2450565.004	10.133 0.002	r	11110-09

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2013fs: Photometric Data

Table D1. 51	1 2013Is. 1 HOLC								
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-10-21	2456586.601	$16.179\ 0.014$	r	1m0-08	2014-01-17	2456674.592	$18.175 \ 0.080$	R	1m0-08
2013-10-22	2456587.711	16.231 0.000	r	1m0-08	2013-10-07	2456572.646	17.048 0.009	i	1m0-08
2013-10-23	2456588.740	16.300 0.001	r	1m0-08	2013-10-08	2456573.735	$16.625 \ 0.007$	i	1m0-08
2013-10-26	2456591.602	16.301 0.007	r	1m0-08	2013-10-09	2456574.706	$16.456 \ 0.012$	i	1m0-08
2013-10-27	2456592.590	$16.333 \ 0.002$	r	1m0-08	2013-10-11	2456576.768	16.232 0.011	i	1m0-08
2013-10-28	2456593.635	16.331 0.006	r	1m0-08	2013-10-12	2456577.769	16.142 0.018	i	1m0-08
2013-10-29	2456594.615	16.351 0.003	r	1m0-08	2013-10-18	2456583.644	16.096 0.005	i	1m0-08
2013-11-02	2456598.684	16.396 0.002	r	1m0-08	2013-10-20	2456585.607	16.173 0.014	i	1m0-08
2013-11-03	2456599.674	16.409 0.004	r	1m0-08	2013-10-21	2456586.604	16.193 0.000	i	1m0-08
2013-11-06	2456602.676	16.406 0.017	r	1m0-08	2013-10-22	2456587.715	16.260 0.018	i	1m0-08
2013-11-10	2456606.657	16.449 0.001	r	1m0-08	2013-10-23	2456588.743	16.318 0.005	i	1m0-08
2013-11-12	2456608.692	16.463 0.001	r	1m0-08	2013-10-26	2456591.605	16.414 0.003	i	1m0-08
2013-11-15	2456611.700	16.499 0.004	r	1m0-08	2013-10-27	2456592.593	16.425 0.003	i	1m0-08
2013-11-20	2456616.614	16.512 0.002	r	1m0-08	2013-10-28	2456593.638	16.426 0.005	i	1m0-08
2013-11-25	2456621.525	16.499 0.001	r	1m0-09	2013-10-29	2456594.619	16.460 0.007	i	1m0-08
2013-11-28	2456624.536	16.601 0.005	r	1m0-04	2013-11-02	2456598.687	16.466 0.009	i	1m0-08
2013-11-28	2456625.278	16.536 0.002	r	1m0-12	2013-11-03	2456599.677	16.446 0.002	i	1m0-08
2013-11-30	2456626.530	16.606 0.002	r	1m0-04	2013-11-06	2456602.679	16.507 0.003	i	1m0-08
2013-12-01	2456627.529	16.498 0.005	r	1m0-09	2013-11-10	2456606.660	16.509 0.019	i	1m0-08
2013-12-03	2456629.555	16.572 0.021	r	1m0-04	2013-11-12	2456608.695	16.486 0.002	i	1m0-08
2013-12-04	2456631.290	16.559 0.003	r	1m0-13	2013-11-15	2456611.703	16.558 0.003	i	1m0-08
2013-12-11	2456637.550	16.582 0.005	r	1m0-09	2013-11-20	2456616.617	16.529 0.005	i	1m0-08
2013-12-14	2456640.929	16.674 0.005	r	1m0-11	2013-11-20	2456616.920	16.523 0.045	i	1m0-11
2013-12-18	2456644.550	16.805 0.012	r	1m0-08	2013-11-25	2456621.529	16.514 0.002	i	1m0-09
2013-12-20	2456646.669	16.783 0.001	r	1m0-08	2013-11-28	2456624.540	16.598 0.007	i	1m0-04
2014-01-17	2456674.587	18.197 0.011	r	1m0-08	2013-11-28	2456625.282	16.487 0.007	i	1m0-12
2014-01-19 2014-01-20	2456676.576	18.321 0.014	r	1m0-08 1m0-08	2013-11-30 2013-12-01	2456626.534	16.583 0.008 16.528 0.013	$i \ i$	1m0-04 1m0-09
2014-01-20	$2456677.566 \\ 2456679.555$	$18.173 \ 0.053$ $18.338 \ 0.023$	$r \\ r$	1m0-08	2013-12-01	$2456627.532 \\ 2456629.560$	16.563 0.006	$i \\ i$	1m0-09 1m0-04
2013-10-07	2456572.789	16.567 0.012	$\stackrel{r}{R}$	1m0-08	2013-12-03	2456631.294	16.583 0.014	$i \\ i$	1m0-04 1m0-13
2013-10-07	2456573.674	16.278 0.012	R	1m0-08	2013-12-04	2456637.554	16.561 0.009	$i \\ i$	1m0-13 1m0-09
2013-10-08	2456574.670	16.124 0.014	$\stackrel{R}{R}$	1m0-08	2013-12-11	2456640.933	16.716 0.049	$i \\ i$	1m0-09 1m0-11
2013-10-09	2456575.661	16.024 0.009	R	1m0-08	2013-12-14	2456644.554	16.718 0.015	$i \\ i$	1m0-11 1m0-08
2013-10-10	2456583.627	15.887 0.031	R	1m0-08	2013-12-18	2456676.581	18.403 0.035	$i \\ i$	1m0-08
2013-10-18	2456585.638	15.970 0.013	R	1m0-08	2014-01-19	2456677.571	18.352 0.100	$i \\ i$	1m0-08
2013-10-20	2456586.636	16.008 0.018	R	1m0-08	2014-01-20	2456679.561	18.399 0.032	$i \ i$	1m0-08
2013-10-21	2456587.748	16.071 0.015	R	1m0-08	2013-10-07	2456572.793	16.573 0.023	$\stackrel{\iota}{I}$	1m0-08
2013-10-22	2456588.686	16.093 0.021	R	1m0-08	2013-10-07	2456573.677	16.265 0.021	I	1m0-08
2013-10-25	2456590.719	16.154 0.019	R	1m0-08	2013-10-09	2456574.674	16.109 0.017	I	1m0-08
2013-10-26	2456591.722	16.158 0.027	R	1m0-08	2013-10-10	2456575.664	15.915 0.025	I	1m0-08
2013-10-27	2456592.711	16.161 0.017	R	1m0-08	2013-10-18	2456583.631	15.679 0.023	\overline{I}	1 m 0 - 0 8
2013-10-28	2456593.610	16.192 0.019	R	1m0-08	2013-10-20	2456585.642	15.803 0.042	I	1m0-08
2013-10-29	2456594.668	16.183 0.025	R	1m0-08	2013-10-21	2456586.639	15.806 0.031	\overline{I}	1m0-08
2013-11-02	2456598.720	16.227 0.020	R	1m0-08	2013-10-22	2456587.751	15.827 0.049	\overline{I}	1m0-08
2013-11-03	2456599.699	16.236 0.032	R	1m0-08	2013-10-23	2456588.690	15.929 0.037	I	1m0-08
2013-11-06	2456602.612	16.240 0.016	R	1m0-08	2013-10-26	2456591.725	15.960 0.011	\overline{I}	1m0-08
2013-11-10	2456606.691	16.280 0.011	R	1m0-08	2013-10-27	2456592.714	15.955 0.016	I	1m0-08
2013-11-20	2456616.690	16.307 0.011	R	1m0-08	2013-10-28	2456593.613	15.996 0.015	I	1m0-08
2013-11-21	2456617.541	16.314 0.015	R	1m0-05	2013-10-29	2456594.671	16.006 0.020	I	1m0-08
2013-12-03	2456629.563	$16.373\ 0.021$	R	1m0-09	2013-11-02	2456598.723	16.043 0.021	I	1m0-08
2013-12-05	2456631.558	16.400 0.017	R	1m0-09	2013-11-03	2456599.702	16.046 0.015	I	1m0-08
2013-12-11	2456637.562	16.535 0.011	R	1m0-04	2013-11-06	2456602.616	16.070 0.012	I	1m0-08
2013-12-14	2456640.673	$16.548 \ 0.024$	R	1m0-08	2013-11-10	2456606.695	$16.064\ 0.015$	I	1m0-08
2013-12-17	2456643.619	16.456 0.037	R	1m0-08	2013-11-20	2456616.694	16.123 0.036	I	1m0-08
2013-12-20	2456646.649	$16.570\ 0.021$	R	1m0-08	2013-11-21	2456617.545	16.080 0.027	I	1m0-05
2013-12-22	2456648.624	$16.741\ 0.025$	R	1m0-08	2013-12-03	2456629.566	$16.114\ 0.017$	I	1m0-09
2013-12-23	2456649.633	16.812 0.019	R	1m0-08	2013-12-05	2456631.562	16.172 0.037	I	1m0-09
2014-01-01	2456658.580	17.560 0.038	R	1m0-08	2013-12-11	2456637.566	16.248 0.018	I	1m0-04
2014-01-07	2456664.553	17.948 0.011	R	1m0-08	2013-12-14	2456640.677	16.230 0.032	I	1m0-08
2014-01-15	2456672.556	$18.122\ 0.056$	R	1m0-08	2013-12-17	2456643.623	$16.054\ 0.012$	I	1m0-08

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2013fs: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-12-22	2456648.628	16.343 0.054	I	1m0-08	2013-10-29	2456594.623	16.415 0.001	z	1m0-08
2013-12-23	2456649.637	$16.491\ 0.034$	I	1m0-08	2013-11-02	2456598.691	$16.481\ 0.004$	z	1m0-08
2014-01-01	2456658.583	$16.883\ 0.046$	I	1m0-08	2013-11-03	2456599.680	$16.434\ 0.021$	z	1m0-08
2014-01-07	2456664.557	$17.575 \ 0.138$	I	1m0-08	2013-11-06	2456602.683	$16.473\ 0.006$	z	1m0-08
2014-01-15	2456672.560	$17.596 \ 0.104$	I	1m0-08	2013-11-10	2456606.664	$16.481\ 0.004$	z	1m0-08
2014-01-17	2456674.596	$17.576 \ 0.102$	I	1m0-08	2013-11-12	2456608.699	$16.482\ 0.007$	z	1m0-08
2013-10-07	2456572.650	$17.282\ 0.009$	z	1m0-08	2013-11-15	2456611.707	$16.571 \ 0.037$	z	1m0-08
2013-10-08	2456573.739	$16.796 \ 0.000$	z	1m0-08	2013-11-20	2456616.621	$16.553 \ 0.026$	z	1m0-08
2013-10-09	2456574.710	$16.589 \ 0.015$	z	1m0-08	2013-11-25	2456621.534	$16.524\ 0.006$	z	1m0-09
2013-10-11	2456576.772	$16.307 \ 0.026$	z	1m0-08	2013-11-28	2456624.545	$16.527 \ 0.024$	z	1m0-04
2013-10-12	2456577.772	$16.208 \ 0.024$	z	1m0-08	2013-11-28	2456625.287	$16.492\ 0.037$	z	1m0-12
2013-10-18	2456583.648	$16.117 \ 0.000$	z	1m0-08	2013-11-30	2456626.539	$16.538 \ 0.027$	z	1m0-04
2013-10-20	2456585.611	$16.172 \ 0.002$	z	1m0-08	2013-12-01	2456627.538	$16.511\ 0.000$	z	1m0-09
2013-10-21	2456586.608	$16.203\ 0.010$	z	1m0-08	2013-12-03	2456629.565	$16.600\ 0.028$	z	1m0-04
2013-10-22	2456587.719	$16.263 \ 0.019$	z	1m0-08	2013-12-04	2456631.299	$16.522\ 0.027$	z	1m0-13
2013-10-23	2456588.747	$16.306 \ 0.025$	z	1m0-08	2013-12-11	2456637.559	$16.526\ 0.011$	z	1m0-09
2013-10-26	2456591.609	$16.368 \ 0.018$	z	1m0-08	2013-12-14	2456640.938	$16.750\ 0.026$	z	1m0-11
2013-10-27	2456592.597	$16.392\ 0.004$	z	1m0-08	2013-12-18	2456644.558	$16.190\ 0.310$	z	1m0-08
2013-10-28	2456593.642	16.374 0.014	z	1m0-08	2013-12-20	2456646.677	17.019 0.050	z	1m0-08

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2013bu: Photometric Data

2013-01-21 2156404.525 16.600 0.000 B Ara C BAT 2013-01-15 2156519.705 < 2.03.12 B 1m-0.08 2013-01-30 2156519.505 16.034 0.021 g 1m-0.08 2013-01-30 2156501.505 2156501.505 17.035 0.027 g 1m-0.08 2013-01-30 2156501.505	Table D1: SI	N 2013bu: Phot				_				
2013-04-23 245-016-052 15.033 0.024 B 1111-008 2013-04-13 245-016-056 16.034 0.021 g 1111-008 2013-04-30 245-012-054 16.034 0.021 g 1111-008 2013-04-30 245-012-054 16.034 0.021 g 1111-008 2013-04-30 245-012-054 245-012-054 311-04-054 245-012-054 245-012-054 311-04-054 245-012-054 311-04-054 245-012-054 311-04-054 31		JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-04-30 245-6142-952 16.622 0.027 B 1m-0-08 2013-04-23 245-610.598 15.988 0.025 g 1m-0-08 2013-05-06 245-614.999 19.594 0.023 B 1m-0-18 2013-05-12 245-610.999 15.988 0.025 g 1m-0-08 2013-05-18 245-610.991 17.395 0.027 B 1m-0-18 2013-05-12 245-611.990 15.395 0.027 g 1m-0-08 2013-05-18 245-613.991 17.395 0.027 B 1m-0-18 2013-05-12 245-611.990 15.395 0.041 g 1m-0-08 2013-05-20 245-612.991 17.493 0.030 B 1m-0-18 2013-05-20 245-612.991 17.493 0.030 B 1m-0-18 2013-05-20 245-612.991 17.493 0.031 B 1m-0-18 2013-05-20 245-612.991 17.493 0.031 B 1m-0-18 2013-05-22 245-614.875 17.536 0.031 B 1m-0-18 2013-05-22 245-614.875 17.735 0.031 B 1m-0-18 2013-05-18 245-612.995 15.391 0.036 g 1m-0-18 2013-05-31 245-614.875 17.735 0.030 B 1m-0-18 2013-05-18 245-614.875 17.735 0.030 B 1m-0-18 2013-05-18 245-614.875 17.735 0.030 B 1m-0-18 2013-05-18 245-614.895 17.735 0.033 B 1m-0-18 2013-05-18 245-614.895 17.735 0.033 B 1m-0-18 2013-05-18 245-614.895 17.735 0.033 B 1m-0-18 2013-05-18 245-614.895 17.895 0.033 B 1m-0-18 2013-05-12 245-614.895 17.895 0.033 B 1m-0-18 2013-05-12 245-614.895 17.895 0.033 B 1m-0-18 2013-05-12 245-614.895 17.895 0.004 B 1m-0-18 2013-05-12 245-614.895 17.995 0.005 B 1m-0-18 2013-05-12 245-614.895 17.795 0.005 B 1m-0-18 2013-05-12 245-614.895 17.795 0.005 B 1m-0-18 2013-05-12 245-614.895					,	1				
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2013-05-06 2456148-99 16,954 0,023 B 100-08 2013-04-26 2456108.998 15,038 0,054 g 100-08 2013-05-18 2456120.991 17,395 0,027 B 100-08 2013-05-12 2456141.900 15,038 0,041 g 100-08 2013-05-20 2456129.901 17,495 0,021 B 100-08 2013-05-20 2456129.901 17,495 0,021 B 100-08 2013-05-20 2456129.901 17,498 0,021 B 100-08 2013-05-22 2456141.901 17,498 0,021 B 100-08 2013-05-22 2456141.907 17,596 0,031 B 100-08 2013-05-22 2456141.907 17,596 0,031 B 100-08 2013-05-30 245612.905 15,390 0,036 g 100-08 2013-05-30 2456141.905 15,395 0,036 g 100-08 2013-05-31 2456141.907 17,745 0,032 B 100-08 2013-05-31 2456141.907 16,495 0,021 g 100-08 2013-05-31 2456141.907 17,745 0,032 B 100-08 2013-05-31 2456141.907 16,495 0,021 g 100-08 2013-05-31 2456141.907 16,495 0,021 g 100-08 2013-05-31 2456141.908 17,748 0,032 B 100-08 2013-05-31 2456141.908 16,549 0,035 g 100-08 2013-05-31 2456141.908 17,749 0,032 B 100-08 2013-05-31 2456141.908 16,549 0,035 g 100-08 2013-05-31 2456141.908 17,749 0,037 B 100-08 2013-05-31 2456141.908 16,549 0,035 g 100-08 2013-05-31 2456141.908 17,904 0,047 B 100-08 2013-05-21 2456141.908 17,904 0,047 B 100-08 2013-05-21						!			g	
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2013-05-18 2456439,013 17,405 0,022 B mn-0.08 2013-05-20 2456429,013 17,468 0,024 B mn-0.08 2013-05-08 2456429,013 17,468 0,024 B mn-0.08 2013-05-08 2456429,015 16,330 0,031 g mn-0.08 2013-05-22 2456434,875 17,478 0,007 B mn-0.08 2013-05-08 2456429,015 16,330 0,031 g mn-0.08 2013-05-22 2456434,875 17,478 0,007 B mn-0.08 2013-05-16 2456429,017 16,95 0,021 g mn-0.08 2013-05-31 2456443,875 17,748 0,002 B mn-0.08 2013-05-16 2456429,017 16,95 0,021 g mn-0.08 2013-05-31 2456443,875 17,748 0,003 B mn-0.08 2013-05-18 245643,920 16,57 0,005 g mn-0.08 2013-05-10 245643,889 17,907 0,007 B mn-0.08 2013-05-20 245643,885 16,605 0,015 g mn-0.08 2013-05-11 2456454,889 17,907 0,007 B mn-0.08 2013-05-22 245643,885 16,605 0,015 g mn-0.08 2013-05-13 2456454,889 17,907 0,007 B mn-0.08 2013-05-13 2456454,885 16,605 0,015 g mn-0.08 2013-05-13 2456454,885 16,605 0,015 g mn-0.08 2013-05-15 245645,889 17,907 0,007 B mn-0.08 2013-05-10 245643,888 16,598 0,015 g mn-0.08 2013-05-16 245645,889 17,907 0,007 B mn-0.08 2013-05-10 245643,888 16,598 0,015 g mn-0.08 2013-05-16 245645,889 17,907 0,007 B mn-0.08 2013-05-10 245645,889 17,907 0,007 B mn-0.08 2013-05-10 245645,889 17,907 0,007 B mn-0.08 2013-05-10 245645,899 16,908 0,016 g mn-0.08 2013-05-17 245646,889 17,907 0,007 B mn-0.08 2013-05-10 245645,899 16,908 0,016 g mn-0.08 2013-05-17 245646,889 17,907 0,007 B mn-0.08 2013									g	
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2013-05-20 2456428-913 17.468 0.024 B 1.00-08 2013-05-08 2456429.53 16.388 0.031 g 1.00-08 2013-05-22 245643-8878 17.478 0.027 B 1.00-08 2013-05-16 2456428-917 16.495 0.021 g 1.00-08 2013-05-31 2456448-878 17.748 0.032 B 1.00-08 2013-05-16 2456428-917 16.495 0.021 g 1.00-08 2013-05-31 2456448-878 17.748 0.032 B 1.00-08 2013-05-18 2456439-202 16.501 0.035 g 1.00-08 2013-05-01 2456447-889 17.707 0.039 B 1.00-08 2013-05-18 2456439-202 16.501 0.035 g 1.00-08 2013-05-01 2456458-889 17.801 0.047 B 1.00-08 2013-05-18 2456439-202 16.501 0.035 g 1.00-08 2013-05-10 2456458-889 17.801 0.047 B 1.00-08 2013-05-20 2456438-923 16.580 0.016 g 1.00-08 2013-05-10 2456458-899 17.901 0.047 B 1.00-08 2013-05-22 2456438-885 16.660 0.015 g 1.00-08 2013-05-11 2456458-899 17.908 0.052 B 1.00-08 2013-05-22 2456438-885 16.660 0.015 g 1.00-08 2013-06-12 2456458-899 17.908 0.052 B 1.00-08 2013-05-22 2456438-885 16.660 0.015 g 1.00-08 2013-06-13 2456458-899 17.908 0.052 B 1.00-08 2013-05-31 2456448-885 16.660 0.015 g 1.00-08 2013-06-13 2456458-899 17.908 0.052 B 1.00-08 2013-05-41 2456443-888 16.580 0.015 g 1.00-08 2013-06-15 2456458-899 17.908 0.052 B 1.00-08 2013-05-12 2456443-888 16.580 0.015 g 1.00-08 2013-06-16 2456458-899 17.908 0.037 B 1.00-08 2013-05-12 2456443-888 16.580 0.015 g 1.00-08 2013-06-17 2456458-899 17.908 0.037 B 1.00-08 2013-05-10 2456453-999 16.580 0.015 g 1.00-08 2013-06-17 2456468-899 17.908 0.037 B 1.00-08 2013-05-10 2456453-999 16.580 0.015 g 1.00-08 2013-06-17 2456468-899 17.908 0.038 B 1.00-08 2013-05-10 2456453-999 16.580 0.015 g 1.00-08 2013-06-17 2456468-899 17.908 0.038 B 1.00-08 2013-05-10 2456458-999 16.580 0.015 g 1.00-08 2013-07-07 2456468-899 17						1			g	
2013-05-22 24564434875 17,536 0.034 B mn-0-08 2013-05-16 2456429.055 16,330 0.036 g mn-0-08 2013-05-31 2456443.875 17,735 0.030 B mn-0-08 2013-05-16 2456428.917 16,501 0.017 g mn-0-08 2013-05-31 2456443.875 17,735 0.030 B mn-0-08 2013-05-18 245643.920 16,501 0.017 g mn-0-08 2013-05-18 245643.920 16,501 0.035 g mn-0-08 2013-05-10 245643.886 17,820 0.033 B mn-0-08 2013-05-20 245642.220 16,505 0.017 g mn-0-08 2013-05-10 2456453.896 17,940 0.047 B mn-0-8 2013-05-22 2456434.886 16,600 0.015 g mn-0-08 2013-05-11 2456445.899 17,946 0.044 B mn-0-8 2013-05-22 2456434.886 16,600 0.015 g mn-0-08 2013-06-11 2456456.899 17,930 0.028 B mn-0-8 2013-05-31 2456445.890 17,946 0.044 B mn-0-8 2013-05-31 2456445.890 17,946 0.044 B mn-0-8 2013-06-13 2456456.899 17,910 0.028 B mn-0-8 2013-06-10 2456458.890 17,940 0.046 B mn-0-8 2013-06-10 2456458.890 17,940 0.036 B mn-0-8 2013-06-10 2456458.890 17,940 0.036 B mn-0-8 2013-06-10 2456458.890 17,940 0.036 B mn-0-8 2013-06-10 2456458.990 17,940 0.036 B mn-0-8 2013-06-10 2456458.990 17,940 0.036 B mn-0-8 2013-06-10 2456469.890 17,940 0.036 B mn-0-8 20						1				
2013-06-22 2456443.878 17.473 0.027 B mn-0-08 2013-05-16 2456428.921 15.00 0.017 g mn-0-08 2013-05-31 2456443.878 17.48 0.032 B mn-0-08 2013-05-16 2456430.920 16.547 0.035 g mn-0-08 2013-05-10 245643.878 17.848 0.032 B mn-0-08 2013-05-18 2456430.920 16.547 0.035 g mn-0-08 2013-05-10 245643.889 17.848 0.033 B mn-0-08 2013-05-20 2456432.920 16.559 0.017 g mn-0-08 2013-05-10 2456438.890 17.920 0.033 B mn-0-08 2013-05-20 2456432.920 16.559 0.017 g mn-0-08 2013-05-10 2456438.890 17.994 0.047 B mn-0-08 2013-05-20 2456432.920 16.559 0.017 g mn-0-08 2013-05-11 2456445.890 17.994 0.047 B mn-0-8 2013-05-22 2456434.880 16.599 0.015 g mn-0-08 2013-06-12 24564548.890 17.994 0.046 B mn-0-8 2013-05-31 2456443.880 16.599 0.015 g mn-0-8 2013-06-13 2456456.890 17.994 0.047 B mn-0-8 2013-05-31 2456443.880 16.679 0.012 g mn-0-8 2013-06-15 2456458.891 17.820 0.037 B mn-0-8 2013-06-16 2456459.898 17.931 0.032 B mn-0-8 2013-06-10 2456459.898 17.931 0.032 B mn-0-8 2013-06-10 2456459.898 17.931 0.032 B mn-0-8 2013-06-10 2456460.896 17.799 0.040 B mn-0-8 2013-06-10 2456460.896 17.799 0.040 B mn-0-8 2013-06-10 2456460.896 17.799 0.040 B mn-0-8 2013-06-11 2456460.896 17.799 0.040 B mn-0-8 2013-06-11 2456460.896 17.799 0.040 B mn-0-8 2013-06-11 2456460.896 17.999 0.045 B mn-0-8 2013-06-12 2456460.896 17.999 0.045 B mn-0-8 2013-06-13 2456460.896 17.999 0.045 B mn-0-8						!				
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⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2013bu: Photometric Data

2013-08-12 2455015,703 20.977 0.208 g 1mf-08 2013-07-12 2255485,838 17,886 0.017 V 1mf-08 2013-08-13 2455017,737 21.420 0.335 g 1mf-08 2013-07-14 2255487,838 17,856 0.021 V 1mf-08 2013-08-13 2455017,737 21.420 0.335 g 1mf-08 2013-07-15 2255498,889 17,855 0.033 V 1mf-08 2013-08-15 2455519,737 21.535 0.377 g 1mf-08 2013-08-15 2455519,737 21.535 0.377 g 1mf-08 2013-08-15 2455519,737 21.010 0.426 g 1mf-08 2013-08-15 2455519,947 21.112 0.034 g 1mf-08 2013-08-15 2455519,947 21.112 0.046 g 1mf-08 2013-08-15 2455519,947 21.112 0.046 g 1mf-08 2013-08-16 2455519,947 21.112 0.034 g 1mf-08 2013-08-16 2455519,947 20.256 0.000 V 1mf-08 2013-08-16 2455519,947 21.112 0.034 g 1mf-08 2013-08-16 2455519,947 20.256 0.000 V 1mf-08 2013-08-16 2455519,948 20.256 0.000 V 1mf-08 2013-08-16 2455519,955 20.256 0.000 V 1mf-08 2013-08-16 2455519,955 20.256 0.000 V 1mf-08 2013-08-16 2455519,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 2455619,955 245561	Date	JD	$\operatorname{mag}^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$\operatorname{mag}^{(a)}$	Filter	$telescope^{(b)}$
2013-08-13 2455617-777 21-229-0355 g mm-0-86 2013-07-16 2455647-838 17.866 0.021 V mm-0-86 2013-08-15 2455617-817 21.558 0.037 g mm-0-86 2013-07-25 24556498-889 17.855 0.033 V mm-0-86 2013-08-15 2455619-772 2455619-786 19.178 0.100 V mm-0-86 2013-08-15 2455619-787 21.201 0.426 g mm-0-86 2013-08-16 2455650-810 19.134 0.115 V mm-0-86 2013-08-15 2455619-787 21.201 0.426 g mm-0-86 2013-08-16 2455650-810 19.134 0.115 V mm-0-86 2013-08-16 2455619-987 21.139 0.339 mm-0-86 2013-08-16 2455619-987 0.0266 0.100 V mm-0-86 2013-08-16 2455619-987 21.127 0.340 g mm-0-86 2013-08-16 2455619-987 0.0266 0.100 V mm-0-86 2013-08-22 2455508-884 21.134 0.135 V mm-0-86 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455619-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 2013-08-16 2455618-986 20.1360-10 20.1360-10 2455618-986 20.1360-10 20.1360-10 2455618-986 20.1360-10 20.1360-10	2013-08-12	2456516.703	20.977 0.268	g	1m0-08	2013-07-12	2456485.838	17.088 0.017	V	1m0-08
2013-08-13 2456417813 21.515 0.425 g m0-08 2013-07-25 2456498.882 17.856 0.032 V m0-08 2013-08-15 2456519.792 21.374 0.410 g m0-08 2013-08-15 2456506.899 19.778 0.100 V m0-08 2013-08-15 2456519.971 21.380 0.393 g m0-08 2013-08-16 24556506.891 19.374 0.115 V m0-08 2013-08-15 2456519.971 21.320 0.393 g m0-08 2013-08-16 24556506.898 19.376 0.118 V m0-08 2013-08-15 2456519.975 21.172 0.304 g m0-08 2013-08-03 24556506.899 19.476 0.110 V m0-08 2013-08-15 2456526.873 21.344 0.363 g m0-08 2013-08-04 24556508.899 19.476 0.110 V m0-08 2013-08-22 2456526.873 21.344 0.363 g m0-08 2013-08-04 24556508.899 24.976 0.110 V m0-08 2013-08-22 2456526.873 21.344 0.363 g m0-08 2013-08-04 24556508.890 24.976 0.110 V m0-08 2013-08-22 2456526.873 21.346 0.367 g m0-08 2013-08-04 2455618.895 20.130 0.200 V m0-08 2013-08-22 2456526.873 21.346 0.367 g m0-08 2013-08-10 2456518.895 245650										
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2013-08-15 2456519-722 21.714 0.101 g 1m0-08 2013-08-15 2456510-878 1.2120 1 0.426 g 1m0-08 2013-08-15 2456510-879 21.130 0.393 g 1m0-08 2013-08-10 2456506.881 19.314 1 0.70										
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2013-04-27 2456409.955 16.473 0.021 V 1m0-08 2013-08-13 2456517.763 < 20.050 V 1m0-08 2013-04-27 2456409.957 16.558 0.036 V 1m0-08 2013-08-15 2456519.717 < 19.969 V 1m0-08 2013-04-29 2456411.956 16.407 0.022 V 1m0-08 2013-04-23 2456405.961 15.547 0.014 r 1m0-08 2013-04-23 2456408.961 15.547 0.012 r 1m0-08 2013-04-26 2456408.961 15.547 0.032 r 1m0-08 2013-05-66 2456418.952 16.365 0.022 V 1m0-08 2013-04-26 2456408.961 15.576 0.032 r 1m0-08 2013-05-60 2456418.952 16.360 0.015 V 1m0-08 2013-04-26 2456408.961 15.775 0.059 r 1m0-08 2013-05-08 2456420.951 16.384 0.015 V 1m0-08 2013-04-29 2456411.962 15.628 0.022 r 1m0-08 2013-05-08 2456420.951 16.384 0.015 V 1m0-08 2013-04-29 2456411.962 15.628 0.022 r 1m0-08 2013-05-15 2456427.953 16.599 0.027 V 1m0-08 2013-04-30 2456412.961 15.576 0.034 r 1m0-08 2013-05-15 2456427.954 16.669 0.025 V 1m0-08 2013-04-30 2456412.962 15.586 0.027 r 1m0-08 2013-05-18 2456430.918 16.474 0.015 V 1m0-08 2013-05-18 2456430.918 16.474 0.015 V 1m0-08 2013-05-15 2456429.918 16.497 0.015 V 1m0-08 2013-05-15 2456429.924 15.676 0.011 V 1m0-08 2013-05-15 2456429.918 16.497 0.015 V 1m0-08 2013-05-15 2456429.924 15.661 0.023 r 1m0-08 2013-05-20 2456438.821 16.497 0.015 V 1m0-08 2013-05-16 2456429.924 15.661 0.003 r 1m0-08 2013-05-21 2456438.825 16.697 0.015 V 1m0-08 2013-05-15 2456429.924 15.661 0.003 r 1m0-08 2013-05-13 2456443.882 16.637 0.015 V 1m0-08 2013-05-16 2456	2013-04-23	2456405.957	$16.237 \ 0.013$	V	1m0-08	2013-08-12	2456516.698	$20.145\ 0.218$	V	1m0-08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-04-26	2456408.955	$16.401\ 0.030$	V	1m0-08	2013-08-13	2456517.761	< 20.206	V	1m0-08
2013-04-29 2456411.956 16.407 0.022 V 1m0-08 2013-04-13 2456405.961 15.547 0.014 r 1m0-08 2013-04-23 2456405.963 15.547 0.014 r 1m0-08 2013-04-23 2456405.963 15.547 0.015 r 1m0-08 2013-04-23 2456405.963 15.547 0.015 r 1m0-08 2013-04-23 2456405.963 15.547 0.015 r 1m0-08 2013-04-23 2456405.963 15.547 0.032 r 1m0-08 2013-04-23 2456405.963 15.547 0.032 r 1m0-08 2013-04-26 2456408.961 15.574 0.032 r 1m0-08 2013-05-06 2456418.952 16.356 0.022 V 1m0-08 2013-04-26 2456408.961 15.775 0.059 r 1m0-08 2013-05-08 2456418.951 16.384 0.015 V 1m0-08 2013-04-27 2456409.961 15.775 0.059 r 1m0-08 2013-05-08 2456420.951 16.384 0.015 V 1m0-08 2013-04-29 2456411.962 15.628 0.022 r 1m0-08 2013-05-15 2456427.953 16.599 0.027 V 1m0-08 2013-04-29 2456411.964 15.603 0.017 r 1m0-08 2013-05-15 2456427.953 16.599 0.025 V 1m0-08 2013-04-30 2456412.961 15.576 0.034 r 1m0-08 2013-05-18 2456430.917 16.478 0.011 V 1m0-08 2013-05-08 2456420.957 15.585 0.027 r 1m0-08 2013-05-18 2456430.917 16.478 0.011 V 1m0-08 2013-05-08 2456420.957 15.596 0.023 r 1m0-08 2013-05-20 2456433.891 16.474 0.015 V 1m0-08 2013-05-15 2456427.960 15.643 0.033 r 1m0-08 2013-05-22 2456433.884 16.532 0.016 V 1m0-08 2013-05-15 2456429.957 15.674 0.011 r 1m0-08 2013-05-22 2456433.884 16.532 0.016 V 1m0-08 2013-05-18 2456430.937 15.661 0.023 r 1m0-08 2013-05-13 2456443.884 16.582 0.016 V 1m0-08 2013-05-18 2456430.937 15.661 0.023 r 1m0-08 2013-05-13 2456443.884 16.582 0.016 V 1m0-08 2013-05-18 2456430.937 15.661 0.023 r 1m0-08 2013-05-13 2456443.884 16.580 0.016 V 1m0-08 2013-05-18 2456430.937 15.661 0.023 r 1m0-08 2013-06-10 2456433.891 16.587 0.013 V 1m0-08 2013-05-18 2456430.937 15.661 0.003 r 1m0-08 2013-06-1	2013-04-27	2456409.955	$16.473\ 0.021$		1m0-08	2013-08-13	2456517.763	< 20.050	V	1m0-08
2013-04-29 2456411.957 16.512 0.023 V 1m0-08 2013-04-23 2456405.961 15.547 0.014 r 1m0-08 2013-04-30 2456412.957 16.356 0.021 V 1m0-08 2013-04-26 2456408.961 15.574 0.032 r 1m0-08 2013-05-06 2456418.952 16.356 0.022 V 1m0-08 2013-04-26 2456408.961 15.574 0.032 r 1m0-08 2013-05-06 2456418.954 16.428 0.019 V 1m0-08 2013-04-26 2456408.961 15.775 0.059 r 1m0-08 2013-05-08 2456420.951 16.3584 0.015 V 1m0-08 2013-04-27 2456409.961 15.775 0.059 r 1m0-08 2013-05-08 2456420.951 16.368 0.015 V 1m0-08 2013-04-29 2456411.962 15.628 0.022 r 1m0-08 2013-05-08 2456420.952 16.360 0.015 V 1m0-08 2013-04-29 2456411.962 15.628 0.022 r 1m0-08 2013-05-50 2456420.955 16.669 0.025 V 1m0-08 2013-04-29 2456411.964 15.603 0.017 r 1m0-08 2013-05-15 2456429.954 16.669 0.025 V 1m0-08 2013-04-30 2456412.961 15.767 6 0.034 r 1m0-08 2013-05-18 2456430.917 16.478 0.011 V 1m0-08 2013-05-08 2456420.957 15.584 0.027 r 1m0-08 2013-05-18 2456430.918 16.474 0.015 V 1m0-08 2013-05-08 2456420.957 15.584 0.027 r 1m0-08 2013-05-20 2456432.918 16.479 0.015 V 1m0-08 2013-05-15 2456429.957 15.669 0.023 r 1m0-08 2013-05-22 2456434.882 16.497 0.015 V 1m0-08 2013-05-15 2456429.957 15.667 0.010 r 1m0-08 2013-05-31 2456433.883 16.541 0.012 V 1m0-08 2013-05-18 2456430.928 15.663 0.018 r 1m0-08 2013-05-31 2456443.883 16.549 0.015 V 1m0-08 2013-05-18 2456430.928 15.663 0.018 r 1m0-08 2013-06-10 2456447.896 16.589 0.015 V 1m0-08 2013-05-18 2456430.928 15.663 0.018 r 1m0-08 2013-06-10 2456445.894 16.589 0.015 V 1m0-08 2013-05-18 2456430.928 15.669 0.009 r 1m0-08 2013-06-10 2456453.904 16.589 0.015 V 1m0-08 2013-05-12 2456434.892 15.669 0.009 r 1m0-08 2013-06-10 2456453.904 16.589 0.015 V 1m0-08 2013-0	2013-04-27	2456409.957	$16.558 \ 0.036$		1m0-08	2013-08-15	2456519.717	< 19.969		1m0-08
2013-04-30 2456412.956 16.352 0.021 V Im0-08 2013-04-26 2456408.961 15.574 0.032 r Im0-08 2013-05-06 2456418.952 16.356 0.022 V Im0-08 2013-04-26 2456408.962 15.653 0.034 r Im0-08 2013-05-06 2456418.954 16.428 0.019 V Im0-08 2013-04-27 2456409.961 15.775 0.059 r Im0-08 2013-05-08 2456420.951 16.384 0.015 V Im0-08 2013-04-27 2456409.961 15.775 0.059 r Im0-08 2013-05-08 2456420.952 16.360 0.015 V Im0-08 2013-04-29 2456411.964 15.603 0.017 r Im0-08 2013-05-15 2456427.953 16.599 0.027 V Im0-08 2013-04-30 2456412.961 15.576 0.034 r Im0-08 2013-05-15 2456430.917 16.478 0.011 V Im0-08 2013-04-30 2456412.962 15.585 0.027 r Im0-08 2013-05-18 2456430.917 16.478 0.011 V Im0-08 2013-05-08 2456420.957 15.584 0.027 r Im0-08 2013-05-18 2456430.917 16.478 0.011 V Im0-08 2013-05-08 2456420.957 15.584 0.027 r Im0-08 2013-05-20 2456432.918 16.474 0.015 V Im0-08 2013-05-15 2456427.960 15.643 0.033 r Im0-08 2013-05-20 2456432.918 16.497 0.015 V Im0-08 2013-05-15 2456427.960 15.643 0.033 r Im0-08 2013-05-20 2456434.882 16.630 0.015 V Im0-08 2013-05-16 2456428.924 15.674 0.011 r Im0-08 2013-05-31 245643.882 16.630 0.028 V Im0-08 2013-05-16 2456428.927 15.667 0.010 r Im0-08 2013-05-31 245643.883 16.541 0.012 V Im0-08 2013-05-16 2456430.927 15.661 0.023 r Im0-08 2013-05-31 2456443.883 16.549 0.015 V Im0-08 2013-05-16 2456430.927 15.661 0.023 r Im0-08 2013-06-10 2456447.897 16.559 0.014 V Im0-08 2013-05-20 2456432.928 15.661 0.003 r Im0-08 2013-06-10 2456453.904 16.569 0.014 V Im0-08 2013-05-20 2456433.892 15.660 0.010 r Im0-08 2013-06-11 2456454.904 16.569 0.014 V Im0-08 2013-05-20 2456433.892 15.660 0.010 r Im0-08 2013-06-10 2456454.904 16.569 0.014 V Im0-08 2013-06-10		2456411.956	$16.407 \ 0.022$			1	2456519.719		V	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-04-29		$16.512 \ 0.023$		1m0-08	2013-04-23	2456405.961		r	1m0-08
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$				V		2013-05-22				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-06-10	2456453.904	$16.566 \ 0.011$			2013-05-22	2456434.894	15.680 0.013	r	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-06-11	2456454.903	$16.569 \ 0.014$	V	1m0-08	2013-05-31	2456443.892	$15.665 \ 0.010$	r	1m0-08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2456454.904	$16.595 \ 0.015$	V	1m0-08	2013-05-31	2456443.893	$15.668 \ 0.009$	r	1m0-08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-06-13	2456456.904	$16.578 \ 0.013$	V	1m0-08	2013-06-04	2456447.906	$15.664\ 0.011$	r	1m0-08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-06-16	2456459.892	$16.607 \ 0.014$	V	1m0-08	2013-06-04	2456447.907	$15.661 \ 0.012$	r	1m0-08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-06-16	2456459.894	$16.622\ 0.011$		1m0-08	2013-06-10	2456453.913	$15.662\ 0.011$	r	1m0-08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2013-06-18	2456461.892	$16.622\ 0.014$		1m0-08	2013-06-10	2456453.914	$15.667 \ 0.010$	r	1m0-08
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$ 2013-07-07 2456480.855 16.901 \ 0.014 V \qquad 1 m0-08 2013-06-18 2456461.902 15.677 \ 0.014 r \qquad 1 m0-08 $										
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2013-07-07 2456480.856 16.893 0.021 V $1m0-08$ $2013-06-18$ 2456461.904 15.679 0.014 r $1m0-08$										
2013-07-08 2456481.837 16.993 0.017 V 1m0-08 2013-06-19 2456462.902 15.711 0.010 r 1m0-08										
2013-07-08 2456481.838 16.973 0.018 V 1m0-08 2013-06-19 2456462.904 15.724 0.010 r 1m0-08						!				
2013-07-12 2456485.837 17.252 0.025 V 1m0-08 2013-07-04 2456477.860 15.861 0.013 r 1m0-08	2013-07-12	2456485.837	17.252 0.025	V	1m0-08	2013-07-04	2456477.860	15.861 0.013	r	1m0-08

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2013bu: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-07-04	2456477.862	15.843 0.019	r	1m0-08	2013-05-20	2456432.932	15.556 0.008	i	1m0-08
2013-07-05	2456478.860	$15.881\ 0.012$	r	1m0-08	2013-05-22	2456434.895	$15.579 \ 0.009$	i	1m0-08
2013-07-05	2456478.861	$15.876 \ 0.012$	r	1m0-08	2013-05-22	2456434.897	$15.529\ 0.008$	i	1m0-08
2013-07-07	2456480.860	$15.935 \ 0.009$	r	1m0-08	2013-05-31	2456443.895	$15.493 \ 0.007$	i	1m0-08
2013-07-07	2456480.861	$15.914\ 0.010$	r	1m0-08	2013-05-31	2456443.897	$15.483\ 0.008$	i	1m0-08
2013-07-08	2456481.843	$15.936 \ 0.013$	r	1m0-08	2013-06-04	2456447.909	$15.509 \ 0.009$	i	1m0-08
2013-07-08	2456481.844	$15.935 \ 0.014$	r	1m0-08	2013-06-04	2456447.911	$15.498 \ 0.008$	i	1m0-08
2013-07-12	2456485.843	$16.072\ 0.013$	r	1m0-08	2013-06-10	2456453.916	$15.476 \ 0.007$	i	1m0-08
2013-07-12	2456485.844	$16.060 \ 0.012$	r	1m0-08	2013-06-10	2456453.918	$15.487 \ 0.008$	i	1m0-08
2013-07-14	2456487.843	$16.141\ 0.012$	r	1m0-08	2013-06-11	2456454.916	$15.472\ 0.015$	i	1m0-08
2013-07-14	2456487.844	$16.142\ 0.013$	r	1m0-08	2013-06-11	2456454.918	$15.468 \ 0.018$	i	1m0-08
2013-07-25	2456498.893	16.779 0.019	r	1m0-08	2013-06-13	2456456.916	$15.495 \ 0.008$	i	1m0-08
2013-07-25	2456498.895	$16.833\ 0.017$	r	1m0-08	2013-06-13	2456456.918	$15.505 \ 0.008$	i	1m0-08
2013-08-01	2456505.814	18.008 0.048	r	1m0-08	2013-06-16	2456459.906	15.490 0.006	i	1m0-08
2013-08-01	2456505.815	$17.972\ 0.046$	r	1m0-08	2013-06-16	2456459.908	$15.487 \ 0.007$	i	1m0-08
2013-08-02	2456506.873	18.375 0.053	r	1m0-08	2013-06-18	2456461.906	15.513 0.007	i	1m0-08
2013-08-02	2456506.874	$18.355 \ 0.053$	r	1m0-08	2013-06-18	2456461.908	15.484 0.009	i	1m0-08
2013-08-06	2456510.895	19.799 0.181	r	1m0-08	2013-06-19	2456462.906	15.509 0.007	i	1m0-08
2013-08-06	2456510.897	19.576 0.163	r	1m0-08	2013-06-19	2456462.908	15.516 0.009	i	1m0-08
2013-08-06	2456510.923	19.712 0.180	$\overset{\cdot}{r}$	1m0-08	2013-07-04	2456477.863	15.646 0.014	i	1m0-08
2013-08-06	2456510.925	19.862 0.241	$\overset{\cdot}{r}$	1m0-08	2013-07-04	2456477.864	15.651 0.010	i	1m0-08
2013-08-06	2456510.951	19.914 0.280	$\overset{\prime}{r}$	1m0-08	2013-07-05	2456478.863	15.685 0.009	i	1m0-08
2013-08-06	2456510.954	19.867 0.218	$\overset{\prime}{r}$	1m0-08	2013-07-05	2456478.864	15.667 0.010	i	1m0-08
2013-08-09	2456513.932	19.874 0.280	r	1m0-08	2013-07-07	2456480.863	15.714 0.008	i	1 m 0 - 0 8
2013-08-09	2456513.934	19.992 0.251	$\overset{\prime}{r}$	1m0-08	2013-07-07	2456480.864	15.714 0.008	$i \ i$	1m0-08
2013-08-09	2456513.961	19.607 0.183	r	1m0-08	2013-07-07	2456481.845	15.714 0.010	$i \\ i$	1m0-08
2013-08-09	2456513.963	19.618 0.180	r	1m0-08	2013-07-08	2456481.846	15.732 0.009	$i \\ i$	1m0-08
2013-08-09	2456515.720	19.137 0.126	r	1m0-08	2013-07-08	2456485.845	15.878 0.010	$i \\ i$	1m0-08
2013-08-11	2456515.722	< 18.961	r = r	1m0-08	2013-07-12	2456485.846	15.866 0.011	$i \\ i$	1m0-08
2013-08-11	2456516.707	19.195 0.101	r	1m0-08	2013-07-12	2456487.845	16.070 0.015	$i \\ i$	1m0-08
2013-08-12	2456516.709			1m0-08				$i \\ i$	
		19.110 0.094	r	1m0-08	2013-07-14	2456487.846	15.948 0.010		1m0-08
2013-08-13	2456517.802	< 19.167	r		2013-07-25	2456498.896	16.595 0.018	i	1m0-08
2013-08-13	2456517.804	< 19.088	r	1m0-08	2013-07-25	2456498.897	16.567 0.012	i	1m0-08
2013-08-13	2456517.822	< 19.310	r	1m0-08	2013-08-01	2456505.816	17.778 0.043	i	1m0-08
2013-08-13	2456517.824	< 19.201	r	1m0-08	2013-08-01	2456505.817	17.872 0.046	i	1m0-08
2013-08-15	2456519.736	< 19.286	r	1m0-08	2013-08-02	2456506.875	18.208 0.074	i	1m0-08
2013-08-15	2456519.738	< 19.188	r	1m0-08	2013-08-02	2456506.876	18.165 0.076	i	1m0-08
2013-04-23	2456405.964	15.559 0.014	i	1m0-08	2013-08-11	2456515.724	18.768 0.120	i	1m0-08
2013-04-23	2456405.965	15.581 0.010	i	1m0-08	2013-08-11	2456515.726	18.744 0.104	i	1m0-08
2013-04-26	2456408.963	15.628 0.030	i	1m0-08	2013-08-12	2456516.711	18.706 0.100	i	1m0-08
2013-04-26	2456408.964	$15.596 \ 0.025$	i	1m0-08	2013-08-12	2456516.713	18.885 0.125	i	1m0-08
2013-04-29	2456411.965	$15.590 \ 0.018$	i	1m0-08	2013-08-13	2456517.806	18.730 0.099	i	1m0-08
2013-04-29	2456411.966	$15.581 \ 0.020$	i	1m0-08	2013-08-13	2456517.809	$18.771 \ 0.102$	i	1m0-08
2013-04-30	2456412.964	$15.559 \ 0.030$	i	1m0-08	2013-08-13	2456517.826	$18.745 \ 0.093$	i	1m0-08
2013-04-30	2456412.965	$15.596 \ 0.021$	i	1m0-08	2013-08-13	2456517.828	$18.790 \ 0.100$	i	1m0-08
2013-05-06	2456418.961	$15.566 \ 0.037$	i	1m0-08	2013-08-15	2456519.800	$18.616 \ 0.109$	i	1m0-08
2013-05-06	2456418.963	$15.625 \ 0.034$	i	1m0-08	2013-08-15	2456519.966	$18.781 \ 0.114$	i	1m0-08
2013-05-08	2456420.959	$15.588 \ 0.015$	i	1m0-08	2013-08-15	2456519.968	$18.704\ 0.112$	i	1m0-08
2013-05-08	2456420.960	$15.560\ 0.016$	i	1m0-08	2013-08-20	2456524.695	$18.852\ 0.147$	i	1m0-08
2013-05-15	2456427.963	$15.534\ 0.030$	i	1m0-08	2013-08-20	2456524.697	$19.028\ 0.197$	i	1m0-08
2013-05-15	2456427.964	$15.648\ 0.021$	i	1m0-08	2013-08-22	2456526.888	$18.625 \ 0.121$	i	1m0-08
2013-05-16	2456428.929	$15.581\ 0.006$	i	1m0-08	2013-08-22	2456526.891	18.771 0.140	i	1m0-08
2013-05-16	2456428.931	$15.555 \ 0.008$	i	1m0-08	2013-08-29	2456533.885	$18.732\ 0.132$	i	1m0-08
2013-05-18	2456430.930	15.560 0.011	i	1m0-08	2013-08-29	2456533.887	18.829 0.156	i	1m0-08
	2456430.932	$15.527\ 0.015$	i	1m0-08	2013-09-01	2456536.738	18.941 0.143	i	1m0-08
2013-05-18	2400400.002								

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

Table D1. A	DADDIN-14IIa. 1	notometric Dat							
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-09-12	2456912.959	12.678 0.093	uw2	Swift	2014-09-12	2456912.963	12.509 0.061	um2	Swift
2014-09-12	2456912.960	$12.687 \ 0.071$	uw2	Swift	2014-09-12	2456912.967	$12.511\ 0.058$	um2	Swift
2014-09-11	2456912.355	$12.478 \ 0.092$	uw2	Swift	2014-09-11	2456912.358	$12.336\ 0.084$	um2	Swift
2014-09-11	2456912.356	$12.442\ 0.071$	uw2	Swift	2014-09-11	2456912.359	$12.380\ 0.061$	um2	Swift
2014-09-12	2456912.959	$12.678 \ 0.093$	uw2	Swift	2014-09-11	2456912.366	$12.348 \ 0.058$	um2	Swift
2014-09-12	2456912.960	$12.687 \ 0.071$	uw2	Swift	2014-09-12	2456912.962	$12.543\ 0.087$	um2	Swift
2014-09-13	2456913.840	$12.887\ 0.093$	uw2	Swift	2014-09-12	2456912.963	$12.509 \ 0.061$	um2	Swift
2014-09-13	2456913.840	$13.017 \ 0.072$	uw2	Swift	2014-09-12	2456912.967	$12.511 \ 0.058$	um2	Swift
2014-09-13	2456913.906	$13.155 \ 0.097$	uw2	Swift	2014-09-13	2456914.309	$12.769\ 0.090$	um2	Swift
2014-09-13	2456913.907	$13.121\ 0.072$	uw2	Swift	2014-09-13	2456914.309	$12.795 \ 0.069$	um2	Swift
2014-09-13	2456913.958	$13.095 \ 0.096$	uw2	Swift	2014-09-14	2456915.300	$12.979 \ 0.094$	um2	Swift
2014-09-13	2456913.958	$13.056 \ 0.072$	uw2	Swift	2014-09-14	2456915.300	$13.025 \ 0.063$	um2	Swift
2014-09-13	2456914.305	$13.084\ 0.096$	uw2	Swift	2014-09-14	2456915.302	$13.019 \ 0.061$	um2	Swift
2014-09-13	2456914.306	$13.071 \ 0.072$	uw2	Swift	2014-09-14	2456915.366	$12.954 \ 0.094$	um2	Swift
2014-09-13	2456914.372	$13.238 \ 0.098$	uw2	Swift	2014-09-14	2456915.367	$12.978 \ 0.063$	um2	Swift
2014-09-13	2456914.373	$13.216 \ 0.072$	uw2	Swift	2014-09-14	2456915.369	13.043 0.061	um2	Swift
2014-09-14	2456915.296	13.414 0.100	uw2	Swift	2014-09-15	2456915.566	$12.955 \ 0.093$	um2	Swift
2014-09-14	2456915.297	$13.498 \ 0.073$	uw2	Swift	2014-09-15	2456915.567	$13.087 \ 0.063$	um2	Swift
2014-09-14	2456915.363	$13.352\ 0.099$	uw2	Swift	2014-09-15	2456915.569	13.091 0.060	um2	Swift
2014-09-14	2456915.363	$13.805 \ 0.075$	uw2	Swift	2014-09-15	2456915.902	$13.496 \ 0.108$	um2	Swift
2014-09-15	2456915.563	$13.457 \ 0.102$	uw2	Swift	2014-09-15	2456915.902	$13.425 \ 0.066$	um2	Swift
2014-09-15	2456915.563	13.511 0.073	uw2	Swift	2014-09-14	2456915.425	13.064 0.063	um2	Swift
2014-09-15	2456915.898	13.864 0.111	uw2	Swift	2014-09-15	2456915.692	13.190 0.064	um2	Swift
2014-09-15	2456915.899	$13.932 \ 0.075$	uw2	Swift	2014-09-15	2456915.759	$13.167 \ 0.067$	um2	Swift
2014-09-15	2456915.703	$13.590\ 0.078$	uw2	Swift	2014-09-15	2456915.826	$13.154 \ 0.072$	um2	Swift
2014-09-15	2456915.766	13.681 0.085	uw2	Swift	2014-09-15	2456915.959	13.217 0.065	um2	Swift
2014-09-15	2456915.832	13.526 0.082	uw2	Swift	2014-09-15	2456916.027	13.247 0.065	um2	Swift
2014-09-15	2456915.969	13.672 0.079	uw2	Swift	2014-09-15	2456916.368	13.287 0.077	um2	Swift
2014-09-15	2456916.037	13.753 0.080	uw2	Swift	2014-09-15	2456916.426	13.231 0.064	um2	Swift
2014-09-15	2456916.371	13.790 0.105	uw2	Swift	2014-09-17	2456918.097	13.422 0.105	um2	Swift
2014-09-15	2456916.437	13.717 0.078	uw2	Swift	2014-09-17	2456918.098	13.693 0.067	um2	Swift
2014-09-17	2456918.094	14.020 0.116	uw2	Swift	2014-09-17	2456918.101	13.638 0.060	um2	Swift
2014-09-17	2456918.094	14.091 0.076	uw2	Swift	2014-09-19	2456920.427	14.295 0.140	um2	Swift
2014-09-19	2456920.424	14.870 0.152	uw2	Swift	2014-09-19	2456920.428	14.380 0.074	um2	Swift
2014-09-19	2456920.425	14.750 0.082	uw2	Swift	2014-09-19	2456920.431	14.311 0.061	$um2 \ um2$	Swift
2014-09-21	2456922.421	14.738 0.145	$uw2 \ uw2$	Swift	2014-09-21	2456922.425	14.604 0.158	um2	Swift
2014-09-21	2456922.422	14.859 0.083		Swift	2014-09-21	2456922.426 2456922.429	14.506 0.076 14.516 0.062	um2	$Swift \\ Swift$
2014-09-23 2014-09-23	2456923.549	15.257 0.140	$uw2 \ uw2$	$Swift \\ Swift$	2014-09-21 2014-09-23	2456923.555	14.799 0.133	um2	$Swift \\ Swift$
2014-09-23	$2456923.550 \\ 2456931.022$	$15.068 \ 0.077$ $16.488 \ 0.308$	uw2 $uw2$	Swift	2014-09-23	2456923.557	14.771 0.068	um2	$Swift \\ Swift$
2014-09-30	2456931.023	16.911 0.153	uw2 $uw2$	$Swift \\ Swift$	2014-09-23	2456931.092	17.007 0.520	um2	$Swift \\ Swift$
2014-09-30	2456931.089	16.833 0.376	uw2 $uw2$	Swift $Swift$	2014-09-30	2456932.548	17.509 0.707	um2	Swift $Swift$
2014-09-30	2456931.089	17.055 0.165	uw2	Swift	2014-10-02	2456932.548	17.252 0.220	um2	Swift
2014-10-02	2456932.544	17.470 0.534	uw2	Swift	2014-10-02	2456932.551	17.207 0.113	um2	Swift
2014-10-02	2456932.545	17.104 0.167	uw2	Swift	2014-10-02	2456935.356	17.573 0.723	um2	Swift
2014-10-02	2456935.352	17.627 0.623	uw2	Swift	2014-10-04	2456935.357	17.712 0.291	um2	Swift
2014-10-04	2456935.353	17.668 0.233	uw2	Swift	2014-10-04	2456935.358	17.812 0.242	um2	Swift
2014-10-06	2456937.475	17.407 0.535	uw2	Swift	2014-10-06	2456937.479	17.485 0.659	um2	Swift
2014-10-06	2456937.476	18.035 0.299	uw2	Swift	2014-10-06	2456937.479	18.349 0.469	um2	Swift
2014-10-08	2456939.081	17.849 0.258	uw2	Swift	2014-10-06	2456937.482	18.162 0.185	um2	Swift
2014-10-10	2456941.143	17.800 0.658	uw2	Swift	2014-10-08	2456939.084	18.814 0.628	um2	Swift
2014-10-10	2456941.144	18.368 0.368	uw2	Swift	2014-10-08	2456939.087	18.467 0.226	um2	Swift
2014-10-15	2456945.540	18.473 0.232	uw2	Swift	2014-10-10	2456941.148	18.198 0.406	um2	Swift
2014-10-15	2456945.608	17.873 0.650	uw2	Swift	2014-10-10	2456941.151	18.531 0.214	um2	Swift
2014-10-15	2456945.610	18.104 0.176	uw2	Swift	2014-10-15	2456945.543	18.157 0.990	um2	Swift
2014-10-19	2456949.541	18.508 0.275	uw2	Swift	2014-10-15	2456945.544	18.587 0.305	um2	Swift
2014-10-20	2456950.673	18.108 0.193	uw2	Swift	2014-10-15	2456945.614	18.227 0.228	um2	Swift
2014-10-25	2456955.981	18.240 0.582	uw2	Swift	2014-10-19	2456949.544	18.161 0.258	um2	Swift
2014-10-25	2456955.984	18.676 0.191	uw2	Swift	2014-10-19	2456950.409	19.279 0.687	um2	Swift
2014-09-12	2456912.962	$12.543\ 0.087$	um2	Swift	2014-10-25	2456955.991	$18.791 \ 0.247$	um2	Swift

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⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

Date JD $mag^{(a)}$ Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-09-12 2456912.773 12.704 0.081 <i>uw</i> 1	Swift	2014-09-30	2456931.018	15.814 0.092	uw1	Swift
2014-09-12 2456912.774 12.680 0.058 $uw1$	Swift	2014-09-30	2456931.084	16.112 0.249	uw1	Swift
2014-09-12 2456912.903 12.948 0.085 $uw1$	Swift	2014-09-30	2456931.084	$15.845 \ 0.093$	uw1	Swift
2014-09-12 2456912.903 12.785 0.058 $uw1$	Swift	2014-10-02	2456932.539	$16.529\ 0.320$	uw1	Swift
2014-09-12 2456912.954 12.814 0.082 $uw1$	Swift	2014-10-02	2456932.540	$16.297 \ 0.110$	uw1	Swift
2014-09-12 2456912.955 12.791 0.058 $uw1$	Swift	2014-10-04	2456935.347	16.500 0.306	uw1	Swift
2014-09-11 2456912.350 12.745 0.084 $uw1$	Swift	2014-10-04	2456935.348	16.463 0.119	uw1	Swift
2014-09-11 2456912.350 12.636 0.058 $uw1$	Swift	2014-10-06	2456937.470	$16.372\ 0.289$	uw1	Swift
2014-09-12 2456912.773 12.704 0.081 $uw1$	Swift	2014-10-06	2456937.471	$16.735 \ 0.135$	uw1	Swift
2014-09-12 2456912.774 12.680 0.058 $uw1$	Swift	2014-10-08	2456939.075	16.919 0.395	uw1	Swift
2014-09-12 2456912.903 12.948 0.085 $uw1$	Swift	2014-10-08	2456939.075	17.012 0.157	uw1	Swift
2014-09-12 2456912.903 12.785 0.058 $uw1$	Swift	2014-10-10	2456941.138	17.235 0.495	uw1	Swift
2014-09-12 2456912.954 12.814 0.082 $uw1$	Swift	2014-10-10	2456941.139	17.021 0.158	uw1	Swift
2014-09-12 2456912.955 12.791 0.058 $uw1$	Swift	2014-10-15	2456945.546	17.955 0.745	uw1	Swift
2014-09-13 2456913.834 12.944 0.084 $uw1$	Swift	2014-10-15	2456945.548	17.583 0.158	uw1	Swift
2014-09-13 2456913.835 12.887 0.058 $uw1$	Swift	2014-10-15	2456945.616	17.096 0.403	uw1	Swift
2014-09-13 2456913.901 12.853 0.083 $uw1$	Swift	2014-10-15	2456945.618	17.473 0.145	uw1	Swift
2014-09-13 2456913.902 12.998 0.059 $uw1$	Swift	2014-10-19	2456949.546	17.526 0.138	uw1	Swift
2014-09-13 2456913.953 12.915 0.084 $uw1$	Swift	2014-10-19	2456950.411	17.589 0.150	uw1	Swift
2014-09-13 2456913.953 12.941 0.059 $uw1$	Swift	2014-10-20	2456950.678	18.221 0.955	uw1	Swift
2014-09-13 2456914.285 12.896 0.083 $uw1$	Swift	2014-10-20	2456950.679	17.465 0.236	uw1	Swift
2014-09-13 2456914.286 12.976 0.059 $uw1$	Swift	2014-10-25	2456955.995	17.974 0.519	uw1	Swift
2014-09-13 2456914.300 13.142 0.088 $uw1$	Swift	2014-10-25	2456955.998	17.701 0.113	uw1	Swift
2014-09-13 2456914.301 12.956 0.059 $uw1$	Swift	2014-09-12	2456912.905	13.327 0.051	us	Swift
2014-09-13 2456914.352 13.069 0.087 <i>uw</i> 1	Swift	2014-09-12	2456912.956	13.305 0.050	us	Swift
2014-09-13 2456914.353 13.107 0.059 $uw1$	Swift	2014-09-11	2456912.352	13.193 0.050	us	Swift
2014-09-13 2456914.367 13.144 0.086 <i>uw</i> 1	Swift	2014-09-12	2456912.905	13.327 0.051	us	Swift
2014-09-13 2456914.368 13.072 0.059 <i>uw</i> 1	Swift	2014-09-12	2456912.956	13.305 0.050	us	Swift
2014-09-14 2456915.291 13.153 0.088 <i>uw</i> 1	Swift	2014-09-13	2456913.837	13.427 0.051	us	Swift
2014-09-14 2456915.292 13.181 0.059 $uw1$	Swift	2014-09-13	2456913.903	13.462 0.051	us	Swift
2014-09-14 2456915.358 13.147 0.087 <i>uw</i> 1	Swift	2014-09-13	2456913.955	13.415 0.051	us	Swift
2014-09-14 2456915.358 13.171 0.059 <i>uw</i> 1	Swift	2014-09-13	2456914.303	13.441 0.051	us	Swift
2014-09-15 2456915.557 13.382 0.094 $uw1$	Swift	2014-09-13	2456914.355	13.491 0.051	us	Swift
2014-09-15 2456915.558 13.234 0.059 $uw1$	Swift	2014-09-13	2456914.369	13.500 0.051	us	Swift
2014-09-15 2456915.893 13.466 0.095 $uw1$	Swift	2014-09-14	2456915.293	13.523 0.051	us	Swift
2014-09-15 2456915.894 13.353 0.060 $uw1$	Swift	2014-09-14	2456915.360	13.542 0.051	us	Swift
2014-09-15 2456915.690 13.222 0.057 $uw1$	Swift	2014-09-15	2456915.560	13.503 0.051	us	Swift
2014-09-15 2456915.757 13.241 0.057 $uw1$	Swift	2014-09-15	2456915.896	13.572 0.051	us	Swift
2014-09-15 2456915.823 13.259 0.057 $uw1$	Swift	2014-09-17	2456918.091	$13.673\ 0.051$	us	Swift
2014-09-15 2456915.956 13.237 0.057 $uw1$	Swift	2014-09-19	2456920.421	13.835 0.052	us	Swift
2014-09-15 2456916.025 13.279 0.057 $uw1$	Swift	2014-09-21	2456922.419	13.905 0.052	us	Swift
2014-09-15 2456916.366 13.350 0.057 $uw1$	Swift	2014-09-23	2456923.563	$13.927 \ 0.050$	us	Swift
2014-09-15 2456916.424 13.391 0.057 $uw1$	Swift	2014-09-30	2456931.019	14.529 0.055	us	Swift
2014-09-14 2456915.426 13.147 0.065 $uw1$	Swift	2014-09-30	2456931.086	14.510 0.055	us	Swift
2014-09-15 2456915.693 13.190 0.066 $uw1$	Swift	2014-10-02	2456932.542	14.698 0.056	us	Swift
2014-09-15 2456915.759 13.261 0.073 $uw1$	Swift	2014-10-04	2456935.350	14.959 0.058	us	Swift
2014-09-15 2456915.826 13.189 0.072 $uw1$	Swift	2014-10-06	2456937.472	15.182 0.061	us	Swift
2014-09-15 2456915.960 13.323 0.069 $uw1$	Swift	2014-10-08	2456939.077	15.416 0.064	us	Swift
2014-09-15 2456916.028 13.268 0.068 $uw1$	Swift	2014-10-10	2456941.141	$15.674\ 0.068$	us	Swift
2014-09-15 2456916.368 13.489 0.090 $uw1$	Swift	2014-10-15	2456945.862	15.911 0.069	us	Swift
2014-09-15 2456916.427 13.288 0.067 $uw1$	Swift	2014-10-20	2456951.271	16.164 0.075	us	Swift
2014-09-17 2456918.088 13.783 0.102 <i>uw</i> 1	Swift	2014-10-25	2456956.053	16.380 0.082	us	Swift
2014-09-17 2456918.089 13.581 0.061 <i>uw</i> 1	Swift	2014-09-20	2456920.808	14.217 0.023	U	1m0-05
2014-09-19 2456920.419 14.132 0.110 <i>uw</i> 1	Swift	2014-09-20	2456920.811	14.230 0.021	U	1m0-05
2014-09-19 2456920.419 13.991 0.063 <i>uw</i> 1	Swift	2014-09-22	2456922.845	14.275 0.025	U	1m0-09
2014-09-21 2456922.416 14.338 0.119 <i>uw</i> 1	Swift	2014-09-22	2456922.848	14.285 0.021	U	1m0-09
2014-09-21 2456922.417 14.307 0.065 <i>uw</i> 1	Swift	2014-09-25	2456925.869	14.407 0.023	U	1m0-04
2014-09-23 2456923.558 14.375 0.096 <i>uw</i> 1	Swift	2014-09-25	2456925.872	14.393 0.020	$\stackrel{\circ}{U}$	1m0-04
2014-09-23 2456923.560 14.489 0.061 <i>uw</i> 1	Swift	2014-09-26	2456926.627	14.385 0.041	U	1m0-12
2014-09-30 2456931.017 15.626 0.198 <i>uw</i> 1	Swift	2014-09-26	2456926.628	14.450 0.047	U	1m0-12

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

		'hotometric Dat		(1)					(1)
Date	JD	$\operatorname{mag}^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-09-28	2456929.251	14.626 0.047	U	1m0-03	2014-09-13	2456913.547	14.643 0.016	B	1m0-12
2014-09-28	2456929.253	14.669 0.052	U	1m0-03	2014-09-13	2456913.549	14.599 0.017	B	1m0-12
2014-09-30	2456931.165	14.443 0.057	U	1m0-11	2014-09-13	2456913.614	14.653 0.012	B	1m0-12
2014-10-02	2456933.060	14.915 0.070	U	1m0-11	2014-09-13	2456913.617	14.603 0.014	B	1m0-12
2014-10-04	2456934.542	14.874 0.060	U	1m0-12	2014-09-13	2456914.278	14.930 0.057	B	1m0-03
2014-10-04	2456934.544	14.833 0.059	U	1m0-12	2014-09-14	2456914.590	14.691 0.028	B	1m0-10
2014-10-05	2456936.259	14.992 0.038	U	1m0-11	2014-09-14	2456914.592	14.681 0.022	B	1m0-10
2014-10-05	2456936.260 2456938.038	14.944 0.045	$U \ U$	1m0-11	2014-09-14	2456914.875	14.715 0.010	B	1m0-05
2014-10-07 2014-10-07	2456938.038	15.179 0.075	U	1m0-11 1m0-11	2014-09-14 2014-09-14	$2456914.878 \\ 2456915.098$	$14.710 \ 0.010$ $14.783 \ 0.013$	$B \\ B$	1 m 0 - 05 1 m 0 - 03
2014-10-07	2456939.221	15.115 0.077 15.274 0.085	U	1m0-11 1m0-03	2014-09-14	2456915.100	14.796 0.014	B	1m0-03
2014-10-08	2456939.221	15.147 0.079	U	1m0-03 1m0-11	2014-09-14	2456915.255	14.755 0.015	B	1m0-03 1m0-11
2014-10-08	2456939.223	15.233 0.077	U	1m0-11 1m0-03	2014-09-14	2456915.258	14.725 0.013	B	1m0-11 1m0-11
2014-10-08	2456939.223	15.138 0.072	U	1m0-03 1m0-11	2014-09-14	2456915.278	14.634 0.019	B	1m0-11 1m0-11
2014-10-08	2456940.030	15.430 0.062	U	1m0-11 1m0-03	2014-09-14	2456915.280	14.674 0.017	B	1m0-11 1m0-11
2014-10-03	2456942.024	15.295 0.058	U	1m0-03	2014-09-15	2456916.235	14.806 0.013	B	1m0-11
2014-10-11	2456947.227	15.698 0.062	U	1m0-05	2014-09-15	2456916.237	14.768 0.012	B	1m0-11
2014-10-16	2456947.229	15.661 0.085	U	1m0-11	2014-09-15	2456916.480	14.782 0.014	\overline{B}	1m0-12
2014-10-17	2456948.011	16.006 0.125	U	1m0-03	2014-09-15	2456916.482	14.764 0.018	\overline{B}	1m0-12
2014-10-17	2456948.012	16.036 0.129	U	1m0-03	2014-09-16	2456916.810	14.849 0.013	\overline{B}	1m0-09
2014-10-22	2456953.348	16.313 0.202	U	1m0-12	2014-09-16	2456916.812	15.023 0.023	B	1m0-09
2014-11-21	2456982.718	16.836 0.083	U	1m0-05	2014-09-16	2456917.240	$14.817 \ 0.016$	B	1m0-11
2014-11-21	2456982.720	17.026 0.090	U	1m0-05	2014-09-16	2456917.242	$14.897 \ 0.018$	B	1m0-11
2014-11-27	2456989.410	16.902 0.123	U	1m0-10	2014-09-17	2456917.602	$14.770\ 0.058$	B	1m0-12
2014-12-11	2457002.742	$17.317 \ 0.157$	U	1m0-05	2014-09-17	2456917.604	$14.764\ 0.028$	B	1m0-12
2014-12-11	2457002.743	$17.286\ 0.163$	U	1m0-05	2014-09-18	2456918.748	$14.879\ 0.012$	B	1m0-04
2014-12-16	2457008.449	$17.103 \ 0.127$	U	1m0-12	2014-09-18	2456918.751	$14.908 \ 0.011$	B	1m0-04
2014-12-16	2457008.450	$17.450\ 0.154$	U	1m0-12	2014-09-20	2456920.814	$14.877 \ 0.012$	B	1m0-05
2014-12-22	2457014.288	$17.598 \ 0.241$	U	1m0-10	2014-09-20	2456920.816	$14.908 \ 0.012$	B	1m0-05
2014-12-22	2457014.290	$17.630\ 0.230$	U	1m0-10	2014-09-20	2456920.873	$14.938 \ 0.012$	B	1m0-09
2014-09-12	2456912.907	$14.763 \ 0.049$	bs	Swift	2014-09-20	2456920.876	$14.907 \ 0.011$	B	1m0-09
2014-09-12	2456912.958	$14.721 \ 0.048$	bs	Swift	2014-09-22	2456922.851	$15.062 \ 0.016$	B	1m0-09
2014-09-11	2456912.354	14.665 0.048	bs	Swift	2014-09-22	2456922.853	14.939 0.012	B	1m0-09
2014-09-12	2456912.907	14.763 0.049	bs	Swift	2014-09-25	2456925.875	15.002 0.012	B	1m0-04
2014-09-12	2456912.958	14.721 0.048	bs	Swift	2014-09-25	2456925.878	14.998 0.013	B	1m0-04
2014-09-13	2456913.838	14.788 0.049	bs	Swift	2014-09-26	2456926.630	15.135 0.023	B	1m0-12
2014-09-13	2456913.905	14.882 0.049	bs	Swift	2014-09-26	2456926.631	15.171 0.025	B	1m0-12
2014-09-13 2014-09-13	2456913.957 2456914.304	14.896 0.049	$bs \ bs$	$Swift \\ Swift$	2014-09-28 2014-09-30	2456929.256 2456931.168	15.223 0.044 15.281 0.027	$B \\ B$	1m0-03 1m0-11
2014-09-13	2456914.356	14.878 0.049 14.831 0.055	bs	Swift	2014-09-30	2456931.169	15.309 0.027	B	1m0-11 1m0-11
2014-09-13	2456914.371	14.879 0.049	bs	Swift	2014-09-30	2456933.064	15.310 0.026	B	1m0-11 1m0-11
2014-09-14	2456915.295	14.898 0.049	bs	Swift	2014-10-02	2456933.065	15.369 0.030	B	1m0-11
2014-09-14	2456915.362	14.850 0.049	bs	Swift	2014-10-02	2456934.545	15.216 0.024	B	1m0-11
2014-09-15	2456915.562	14.929 0.049	bs	Swift	2014-10-04	2456934.547	15.239 0.021	$\stackrel{D}{B}$	1m0-12
2014-09-15	2456915.897	14.872 0.049	bs	Swift	2014-10-05	2456936.262	15.232 0.017	\overline{B}	1m0-11
2014-09-17	2456918.093	14.957 0.049	bs	Swift	2014-10-05	2456936.263	15.328 0.014	B	1m0-11
2014-09-19	2456920.423	15.038 0.050	bs	Swift	2014-10-07	2456938.041	15.397 0.031	B	1m0-11
2014-09-21	2456922.420	15.013 0.050	bs	Swift	2014-10-07	2456938.043	$15.392\ 0.024$	B	1m0-11
2014-09-30	2456931.088	$15.269 \ 0.052$	bs	Swift	2014-10-09	2456940.033	$15.498 \ 0.025$	B	1m0-03
2014-09-30	2456931.021	$15.203\ 0.051$	bs	Swift	2014-10-09	2456940.033	$15.495 \ 0.024$	B	1m0-11
2014-10-02	2456932.543	$15.200\ 0.051$	bs	Swift	2014-10-09	2456940.115	$15.431\ 0.024$	B	1m0-03
2014-10-04	2456935.351	$15.291\ 0.052$	bs	Swift	2014-10-11	2456942.026	$15.521\ 0.025$	B	1m0-03
2014-10-06	2456937.474	$15.369 \ 0.053$	bs	Swift	2014-10-11	2456942.027	$15.511 \ 0.021$	B	1m0-03
2014-10-08	2456939.079	$15.430\ 0.053$	bs	Swift	2014-10-16	2456947.231	$15.626\ 0.019$	B	1m0-11
2014-10-10	2456941.142	$15.429\ 0.053$	bs	Swift	2014-10-17	2456948.014	$15.819\ 0.029$	B	1m0-03
2014-10-15	2456945.864	$15.557 \ 0.052$	bs	Swift	2014-10-17	2456948.015	$15.665 \ 0.028$	B	1m0-03
2014-10-20	2456951.273	$15.615 \ 0.053$	bs	Swift	2014-10-22	2456953.351	$15.896\ 0.038$	B	1m0-12
2014-10-25	2456956.055	15.865 0.056	bs	Swift	2014-10-22	2456953.352	15.759 0.034	B	1m0-12
2014-09-11	2456912.270	14.547 0.020	B	1m0-11	2014-10-28	2456959.101	15.877 0.024	B	1m0-11
2014-09-11	2456912.272	14.506 0.014	В	1m0-11	2014-10-28	2456959.102	15.985 0.027	В	1m0-11

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-03	2456965.028	16.089 0.032	В	1m0-11	2014-09-11	2456912.281	14.579 0.026	g	1m0-11
2014-11-03	2456965.029	16.108 0.033	B	1m0-11	2014-09-13	2456913.555	$14.684\ 0.039$	g	1m0-12
2014-11-09	2456970.946	$16.310\ 0.114$	B	1m0-11	2014-09-13	2456913.558	$14.690 \ 0.042$	g	1m0-12
2014-11-21	2456982.722	16.278 0.019	B	1m0-05	2014-09-13	2456913.623	$14.587 \ 0.034$	g	1m0-12
2014-11-21	2456982.723	16.300 0.022	B	1m0-05	2014-09-13	2456913.625	14.685 0.033	g	1m0-12
2014-11-27	2456989.413	16.386 0.023	B	1m0-10	2014-09-14	2456914.598	$14.799 \ 0.026$	g	1m0-10
2014-11-27	2456989.415	16.363 0.021	B	1m0-10	2014-09-14	2456914.601	14.794 0.027	g	1m0-10
2014-12-04	2456996.184	16.419 0.054	B	1m0-03	2014-09-14	2456914.885	14.695 0.009	g	1m0-05
2014-12-04	2456996.185	$16.546 \ 0.035$	B	1m0-03	2014-09-14	2456914.888	$14.705 \ 0.007$	g	1m0-05
2014-12-10	2457001.819	16.442 0.024	B	1m0-05	2014-09-14	2456915.106	$14.764\ 0.035$	g	1m0-03
2014-12-10	2457001.820	16.415 0.026	B	1m0-05	2014-09-14	2456915.109	14.748 0.030	g	1m0-03
2014-12-11	2457002.745	16.418 0.025	B	1m0-05	2014-09-14	2456915.263	14.675 0.034	g	1m0-11
2014-12-11	2457002.746	16.454 0.026	B	1m0-05	2014-09-14	2456915.266	14.698 0.033	g	1m0-11
2014-12-16	2457008.452	16.469 0.025	B	1m0-12	2014-09-14	2456915.289	14.484 0.049	g	1m0-11
2014-12-16	2457008.453	16.512 0.025	B	1m0-12	2014-09-15	2456916.243	14.803 0.031	g	1m0-11
2014-12-22	2457014.292	16.637 0.041	B	1m0-10	2014-09-15	2456916.246	14.796 0.029	g	1m0-11
2014-12-22	2457014.293	16.386 0.051	B	1m0-10	2014-09-15	2456916.488	14.768 0.034	g	1m0-12
2014-12-22	2457014.318	16.377 0.049	B	1m0-13	2014-09-15	2456916.491	14.792 0.115	g	1m0-12
2014-12-22	2457014.320	16.541 0.048	\overline{B}	1m0-13	2014-09-16	2456916.819	14.871 0.010	g	1m0-09
2014-12-23	2457015.317	16.528 0.019	\overline{B}	1m0-12	2014-09-16	2456916.822	14.897 0.011	g	1m0-09
2014-12-23	2457015.319	16.504 0.019	\overline{B}	1m0-12	2014-09-16	2456917.248	14.812 0.024	g	1m0-11
2014-12-25	2457017.329	16.670 0.018	\overline{B}	1m0-12	2014-09-16	2456917.251	14.788 0.028	g	1m0-11
2014-12-25	2457017.332	16.652 0.017	\overline{B}	1m0-12	2014-09-18	2456918.758	14.974 0.011	g	1m0-04
2014-12-25	2457017.355	16.373 0.037	\overline{B}	1m0-12	2014-09-18	2456918.761	14.967 0.014	g	1m0-04
2014-12-25	2457017.358	16.561 0.021	$\stackrel{D}{B}$	1m0-12	2014-09-20	2456920.822	14.994 0.033	g	1 m 0 - 05
2014-12-27	2457019.370	16.689 0.015	\overline{B}	1m0-10	2014-09-20	2456920.824	14.982 0.028	g	1m0-05
2014-12-27	2457019.373	16.718 0.017	$\stackrel{D}{B}$	1m0-10	2014-09-20	2456920.883	14.862 0.010	g	1m0-09
2014-12-29	2457021.042	16.571 0.021	\overline{B}	1m0-11	2014-09-20	2456920.886	14.871 0.011	g	1m0-09
2014-12-31	2457022.747	16.755 0.022	$\stackrel{D}{B}$	1m0-05	2014-09-22	2456922.858	14.879 0.010	g	1m0-09
2014-12-31	2457022.750	16.723 0.025	B	1m0-05	2014-09-22	2456922.860	14.902 0.011	g	1m0-09
2015-01-02	2457025.046	16.717 0.028	B	1m0-11	2014-09-25	2456925.884	14.965 0.012	g	1m0-04
2015-01-02	2457026.462	16.833 0.021	$\stackrel{D}{B}$	1m0-11 1m0-12	2014-09-25	2456925.886	14.964 0.011	g	1m0-04 1m0-04
2015-01-03	2457026.465	16.869 0.021	\overline{B}	1m0-12	2014-09-26	2456926.634	14.998 0.029	g	1m0-12
2015-01-05	2457028.329	16.845 0.022	$\stackrel{D}{B}$	1m0-10	2014-09-26	2456926.635	14.995 0.027	g	1m0-12
2015-01-05	2457028.351	16.886 0.028	\overline{B}	1m0-12	2014-09-30	2456931.172	15.016 0.025	g	1m0-11
2015-01-05	2457028.354	16.889 0.030	\overline{B}	1m0-12	2014-09-30	2456931.174	15.078 0.023	g	1m0-11
2015-01-09	2457031.966	16.723 0.037	\overline{B}	1m0-03	2014-10-02	2456933.068	15.120 0.024	g	1m0-11
2015-01-09	2457031.969	16.861 0.032	\overline{B}	1m0-03	2014-10-02	2456933.069	15.254 0.026	g	1m0-11
2015-01-11	2457034.317	17.029 0.024	$\stackrel{D}{B}$	1m0-12	2014-10-04	2456934.550	15.093 0.036	g	1m0-12
2015-01-11	2457034.320	17.002 0.021	B	1m0-12	2014-10-04	2456934.551	15.232 0.037	g	1m0-12
2015-01-13	2457036.458	17.343 0.042	$\stackrel{D}{B}$	1m0-13	2014-10-05	2456936.266	15.186 0.027	g	1m0-11
2015-01-13	2457036.460	17.244 0.041	\overline{B}	1m0-13	2014-10-05	2456936.267	15.100 0.028	g	1m0-11
2015-01-15	2457038.096	17.425 0.029	\overline{B}	1m0-11	2014-10-07	2456938.046	15.168 0.028	g	1m0-11
2015-01-15	2457038.098	17.378 0.037	$\stackrel{D}{B}$	1m0-11	2014-10-07	2456938.047	15.180 0.028		1m0-11
2015-01-17	2457039.718	17.327 0.027	B	1m0-11	2014-10-07	2456940.038	15.236 0.031	g	1m0-11
2015-01-17	2457039.721	17.366 0.026	$\stackrel{D}{B}$	1m0-05	2014-10-09	2456940.038	15.192 0.060	g	1m0-05
2015-01-17	2457041.455	17.426 0.026	B	1 m 0 - 0 s 1 m 0 - 1 2	2014-10-09	2456940.119	15.210 0.028	g	1m0-11
2015-01-18	2457041.458	17.469 0.024	B	1m0-12 1m0-12	2014-10-03	2456942.030	15.240 0.028	g	1m0-03
2015-01-10	2457043.295	17.574 0.026	B	1m0-12 1m0-10	2014-10-11	2456942.030	15.275 0.028	g	1m0-03
2015-01-20	2457043.297	17.571 0.028	B	1m0-10 1m0-10	2014-10-11	2456948.018	15.412 0.030	g	1m0-03
2015-01-20	2457045.308	17.983 0.038	B	1m0-10 1m0-10	2014-10-17	2456948.019	15.456 0.034	g	1m0-03
2015-01-22	2457045.308	17.809 0.030	B	1m0-10 1m0-10	2014-10-17	2456953.355	15.482 0.028	g	1m0-03 1m0-12
2015-01-25	2457045.312	19.079 0.080	B	1m0-10 1m0-11	2014-10-22	2456953.356	15.508 0.030	g	1m0-12 1m0-12
2015-01-25	2457047.962	19.488 0.155	B	1m0-11 1m0-11	2014-10-22	2456959.105	15.401 0.028	g	1m0-12 1m0-11
2015-01-25	2457047.962	20.065 0.011	$\stackrel{B}{B}$	1m0-11 1m0-05	2014-10-28	2456965.032	15.549 0.030	g	1m0-11 1m0-11
2015-01-27	2457049.613	20.742 0.166	В	1m0-05 1m0-05	2014-11-03	2456965.033	15.486 0.027	g	1m0-11 1m0-11
								g	
2015-02-03	2457056.684	< 20.358	B	1m0-05	2014-11-21	2456982.726	15.588 0.030	g	1m0-05
2015-02-03	2457056.688	< 19.973	B	1m0-05	2014-11-21	2456982.727	15.554 0.032	g	1m0-05
2015-02-11	2457064.600	20.880 0.127	B	1m0-33	2014-11-27	2456989.417	15.604 0.028	g	1m0-10
2014-09-11	2456912.278	$14.555 \ 0.027$	g	1m0-11	2014-11-27	2456989.418	$15.621 \ 0.027$	g	1m0-10

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-12-04	2456996.188	15.728 0.029	g	1m0-03	2014-09-30	2456931.091	$14.938 \ 0.059$	vs	Swift
2014-12-04	2456996.189	$15.577 \ 0.031$	g	1m0-03	2014-10-02	2456932.547	$14.870 \ 0.057$	vs	Swift
2014-12-10	2457001.823	$15.688 \ 0.029$	g	1m0-05	2014-10-04	2456935.355	$14.949 \ 0.059$	vs	Swift
2014-12-10	2457001.824	$15.658 \ 0.028$	g	1m0-05	2014-10-06	2456937.478	$14.879 \ 0.058$	vs	Swift
2014-12-11	2457002.749	$15.706 \ 0.028$	g	1m0-05	2014-10-08	2456939.082	$14.892\ 0.058$	vs	Swift
2014-12-11	2457002.750	$15.668 \ 0.028$	g	1m0-05	2014-10-10	2456941.146	$14.965 \ 0.059$	vs	Swift
2014-12-16	2457008.456	$15.683 \ 0.034$	g	1m0-12	2014-10-15	2456945.867	$14.987 \ 0.051$	vs	Swift
2014-12-16	2457008.457	$15.659 \ 0.036$	g	1m0-12	2014-10-20	2456951.276	$14.994 \ 0.045$	vs	Swift
2014-12-22	2457014.296	$15.669 \ 0.027$	g	1m0-10	2014-10-25	2456956.058	$15.048 \ 0.044$	vs	Swift
2014-12-22	2457014.297	$15.715 \ 0.062$	g	1m0-10	2014-09-08	2456908.834	< 16.000	V	Atel/CBAT
2014-12-23	2457015.325	$15.836 \ 0.039$	g	1m0-12	2014-09-11	2456912.275	$14.729\ 0.019$	V	1m0-11
2014-12-23	2457015.328	$15.818 \ 0.083$	g	1m0-12	2014-09-11	2456912.277	$14.716 \ 0.019$	V	1m0-11
2014-12-25	2457017.338	$15.823\ 0.041$	g	1m0-12	2014-09-13	2456913.552	$14.867 \ 0.016$	V	1m0-12
2014-12-25	2457017.340	$15.812\ 0.042$	g	1m0-12	2014-09-13	2456913.554	$14.851 \ 0.015$	V	1m0-12
2014-12-25	2457017.364	$15.703 \ 0.030$	g	1m0-12	2014-09-13	2456913.621	$14.869 \ 0.015$	V	1m0-12
2014-12-25	2457017.366	$15.728\ 0.031$	g	1m0-12	2014-09-14	2456914.595	$14.882\ 0.026$	V	1m0-10
2014-12-27	2457019.379	$15.755 \ 0.028$	g	1m0-10	2014-09-14	2456914.597	$14.904\ 0.026$	V	1m0-10
2014-12-27	2457019.381	$15.784\ 0.028$	g	1m0-10	2014-09-14	2456914.881	$14.880\ 0.010$	V	1m0-05
2014-12-29	2457021.048	$15.847 \ 0.090$	g	1m0-11	2014-09-14	2456914.883	$14.867 \ 0.009$	V	1m0-05
2014-12-31	2457022.756	$15.870\ 0.036$	g	1m0-05	2014-09-14	2456915.103	$14.890\ 0.014$	V	1m0-03
2014-12-31	2457022.758	$15.787 \ 0.039$	g	1m0-05	2014-09-14	2456915.104	$14.882\ 0.014$	V	1m0-03
2015-01-02	2457025.052	$15.884\ 0.031$	g	1m0-11	2014-09-14	2456915.260	$14.888 \ 0.013$	V	1m0-11
2015-01-02	2457025.055	$15.873\ 0.032$	g	1m0-11	2014-09-14	2456915.262	$14.895 \ 0.014$	V	1m0-11
2015-01-03	2457026.471	$15.974\ 0.042$	g	1m0-12	2014-09-14	2456915.283	$14.833\ 0.015$	V	1m0-11
2015-01-03	2457026.473	$15.979 \ 0.042$	g	1m0-12	2014-09-14	2456915.285	$14.802 \ 0.013$	V	1m0-11
2015-01-05	2457028.338	$15.964\ 0.033$	g	1m0-10	2014-09-15	2456916.240	$14.906 \ 0.015$	V	1m0-11
2015-01-05	2457028.360	$15.889 \ 0.037$	g	1m0-12	2014-09-15	2456916.241	$14.903 \ 0.013$	V	1m0-11
2015-01-05	2457028.362	$15.959 \ 0.035$	g	1m0-12	2014-09-15	2456916.485	$14.922\ 0.014$	V	1m0-12
2015-01-09	2457031.975	$16.074\ 0.044$	g	1m0-03	2014-09-15	2456916.486	$14.891\ 0.014$	V	1m0-12
2015-01-11	2457034.329	$16.077 \ 0.062$	g	1m0-12	2014-09-16	2456916.815	$15.005 \ 0.016$	V	1m0-09
2015-01-15	2457038.104	16.191 0.039	g	1m0-11	2014-09-16	2456916.817	$15.010 \ 0.016$	V	1m0-09
2015-01-15	2457038.107	$16.216\ 0.040$	g	1m0-11	2014-09-16	2456917.247	$14.954\ 0.015$	V	1m0-11
2015-01-17	2457039.727	16.316 0.038	g	1m0-05	2014-09-20	2456920.818	$14.981 \ 0.015$	V	1m0-05
2015-01-17	2457039.729	$16.295 \ 0.037$	g	1m0-05	2014-09-20	2456920.820	$14.957 \ 0.014$	V	1m0-05
2015-01-18	2457041.464	16.309 0.033	g	1m0-12	2014-09-20	2456920.879	$14.965 \ 0.010$	V	1m0-09
2015-01-18	2457041.467	$16.397 \ 0.031$	g	1m0-12	2014-09-20	2456920.881	$14.976 \ 0.012$	V	1m0-09
2015-01-20	2457043.303	$16.547 \ 0.030$	g	1m0-10	2014-09-22	2456922.855	$14.966 \ 0.015$	V	1m0-09
2015-01-20	2457043.306	16.539 0.029	g	1m0-10	2014-09-22	2456922.857	$14.962 \ 0.015$	V	1m0-09
2015-01-22	2457045.322	$16.881 \ 0.062$	g	1m0-10	2014-09-25	2456925.880	$15.023 \ 0.012$	V	1m0-04
2015-01-22	2457045.326	16.851 0.030	g	1m0-10	2014-09-25	2456925.882	$15.041 \ 0.012$	V	1m0-04
2015-01-25	2457047.972	$18.207 \ 0.047$	g	1m0-11	2014-09-26	2456926.632	$15.050 \ 0.018$	V	1m0-12
2015-01-25	2457047.975	$18.548 \ 0.067$	g	1m0-11	2014-09-26	2456926.633	$15.012\ 0.018$	V	1m0-12
2015-02-01	2457055.028	20.144 0.183	g	1m0-11	2014-09-30	2456931.171	$15.069 \ 0.024$	V	1m0-11
2015-02-10	2457064.345	$20.163 \ 0.152$	g	1m0-10	2014-09-30	2456931.171	$14.970\ 0.025$	V	1m0-11
2014-09-12	2456912.961	$14.723\ 0.055$	vs	Swift	2014-10-02	2456933.066	$15.085 \ 0.024$	V	1m0-11
2014-09-11	2456912.357	$14.645 \ 0.053$	vs	Swift	2014-10-02	2456933.067	$15.078 \ 0.024$	V	1m0-11
2014-09-12	2456912.961	$14.723\ 0.055$	vs	Swift	2014-10-04	2456934.548	$15.074\ 0.022$	V	1m0-12
2014-09-13	2456913.842	$14.670\ 0.057$	vs	Swift	2014-10-04	2456934.549	$15.066 \ 0.022$	V	1m0-12
2014-09-13	2456913.909	$14.722\ 0.057$	vs	Swift	2014-10-05	2456936.264	15.118 0.017	V	1m0-11
2014-09-13	2456914.308	14.686 0.055	vs	Swift	2014-10-05	2456936.265	15.111 0.017	V	1m0-11
2014-09-13	2456914.374	14.773 0.062	vs	Swift	2014-10-07	2456938.044	15.090 0.027	\overline{V}	1m0-11
2014-09-14	2456915.299	14.754 0.055	vs	Swift	2014-10-07	2456938.045	15.091 0.028	V	1m0-11
2014-09-14	2456915.365	14.748 0.055	vs	Swift	2014-10-09	2456940.035	15.187 0.022	\overline{V}	1m0-03
2014-09-15	2456915.565	14.779 0.056	vs	Swift	2014-10-09	2456940.035	15.189 0.023	V	1m0-11
2014-09-15	2456915.901	14.710 0.055	vs	Swift	2014-10-09	2456940.116	15.148 0.023	\overline{V}	1m0-03
2014-09-17	2456918.096	14.800 0.056	vs	Swift	2014-10-11	2456942.028	15.186 0.022	\overline{V}	1m0-03
2014-09-19	2456920.426	14.848 0.057	vs	Swift	2014-10-11	2456942.029	15.156 0.023	V	1m0-03
2014-09-21	2456922.424	14.803 0.056	vs	Swift	2014-10-17	2456948.017	15.195 0.024	$\stackrel{\cdot}{V}$	1m0-03
2014-09-23	2456923.553	14.902 0.047	vs	Swift	2014-10-22	2456953.354	15.132 0.033	$\stackrel{\cdot}{V}$	1m0-12
2014-09-30	2456931.024	14.912 0.093	vs	Swift	2014-10-28	2456959.104	15.187 0.020	$\stackrel{\cdot}{V}$	1m0-11
		- 1.012 0.000		~ ~ 0, 0		2100000.101	_5.15, 0.020		11110 11

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-10-28	2456959.104	$15.185 \ 0.021$	V	1m0-11	2015-03-08	2457089.531	< 19.043	V	1m0-04
2014-11-03	2456965.031	$15.193 \ 0.025$	V	1m0-11	2015-02-11	2457064.600	$19.307 \ 0.100$	V	1m0-33
2014-11-03	2456965.032	$15.221 \ 0.026$	V	1m0-11	2014-09-11	2456912.284	$14.851 \ 0.015$	r	1m0-11
2014-11-09	2456970.950	$15.230\ 0.115$	V	1m0-11	2014-09-11	2456912.285	$14.876 \ 0.015$	r	1m0-11
2014-11-15	2456977.198	$15.177 \ 0.128$	V	1m0-03	2014-09-13	2456913.561	$14.916 \ 0.019$	r	1m0-12
2014-11-21	2456982.724	$15.242\ 0.019$	V	1m0-05	2014-09-13	2456913.562	$14.900 \ 0.019$	r	1m0-12
2014-11-21	2456982.725	$15.268 \ 0.018$	V	1m0-05	2014-09-13	2456913.628	$14.941 \ 0.020$	r	1m0-12
2014-11-27	2456989.416	$15.334\ 0.018$	V	1m0-10	2014-09-13	2456913.630	$14.953 \ 0.018$	r	1m0-12
2014-11-27	2456989.417	$15.341 \ 0.018$	V	1m0-10	2014-09-14	2456914.604	$15.021 \ 0.016$	r	1m0-10
2014-12-04	2456996.187	$15.256 \ 0.030$	V	1m0-03	2014-09-14	2456914.605	$14.900 \ 0.016$	r	1m0-10
2014-12-04	2456996.187	$15.290\ 0.030$	V	1m0-03	2014-09-14	2456914.891	$15.000 \ 0.010$	r	1m0-05
2014-12-10	2457001.821	$15.312\ 0.017$	V	1m0-05	2014-09-14	2456914.893	$15.021 \ 0.007$	r	1m0-05
2014-12-10	2457001.822	$15.322\ 0.017$	V	1m0-05	2014-09-14	2456915.111	$14.940 \ 0.021$	r	1m0-03
2014-12-11	2457002.748	$15.305 \ 0.019$	V	1m0-05	2014-09-14	2456915.113	$14.904 \ 0.021$	r	1m0-03
2014-12-11	2457002.749	$15.253 \ 0.018$	V	1m0-05	2014-09-14	2456915.269	$14.884 \ 0.021$	r	1m0-11
2014-12-16	2457008.454	$15.274\ 0.019$	V	1m0-12	2014-09-14	2456915.270	$14.903 \ 0.019$	r	1m0-11
2014-12-16	2457008.455	$15.301 \ 0.018$	V	1m0-12	2014-09-14	2456915.292	$14.879 \ 0.018$	r	1m0-11
2014-12-22	2457014.294	$15.315 \ 0.021$	V	1m0-10	2014-09-14	2456915.293	$14.899 \ 0.021$	r	1m0-11
2014-12-22	2457014.295	$15.357 \ 0.028$	V	1m0-10	2014-09-15	2456916.250	$14.978 \ 0.034$	r	1m0-11
2014-12-22	2457014.321	$15.275 \ 0.020$	V	1m0-13	2014-09-15	2456916.493	$14.911 \ 0.019$	r	1m0-12
2014-12-23	2457015.322	$15.319\ 0.016$	V	1m0-12	2014-09-15	2456916.495	$14.953 \ 0.017$	r	1m0-12
2014-12-23	2457015.324	$15.390\ 0.018$	V	1m0-12	2014-09-16	2456916.825	$15.106 \ 0.019$	r	1m0-09
2014-12-25	2457017.334	$15.402\ 0.014$	V	1m0-12	2014-09-16	2456916.827	$15.181\ 0.023$	r	1m0-09
2014-12-25	2457017.336	$15.391\ 0.013$	V	1m0-12	2014-09-16	2456917.255	$15.101\ 0.033$	r	1m0-11
2014-12-25	2457017.361	$15.358\ 0.014$	V	1m0-12	2014-09-18	2456918.764	$15.115\ 0.010$	r	1m0-04
2014-12-25	2457017.362	$15.259\ 0.020$	V	1m0-12	2014-09-18	2456918.766	$15.179\ 0.015$	r	1m0-04
2014-12-27	2457019.375	$15.412\ 0.011$	V	1m0-10	2014-09-20	2456920.889	$14.970\ 0.008$	r	1m0-09
2014-12-27	2457019.377	$15.417\ 0.012$	V	1m0-10	2014-09-20	2456920.891	15.005 0.009	r	1m0-09
2014-12-29	2457021.047	$15.441\ 0.022$	V	1m0-11	2014-09-22	2456922.862	$15.012\ 0.007$	r	1m0-09
2014-12-31	2457022.752	$15.409 \ 0.015$	V	1m0-05	2014-09-22	2456922.864	$14.999 \ 0.010$	r	1m0-09
2014-12-31	2457022.754	$15.434\ 0.018$	V	1m0-05	2014-09-25	2456925.888	15.020 0.010	r	1m0-04
2015-01-02	2457025.049	$15.459 \ 0.030$	V	1m0-11	2014-09-25	2456925.889	$15.012\ 0.009$	r	1m0-04
2015-01-02	2457025.051	$15.457 \ 0.031$	V	1m0-11	2014-09-26	2456926.637	$15.022\ 0.017$	r	1m0-12
2015-01-03	2457026.468	$15.467 \ 0.019$	V	1m0-12	2014-09-30	2456931.175	15.098 0.017	r	1m0-11
2015-01-03	2457026.469	15.488 0.019	V	1m0-12	2014-09-30	2456931.176	$15.033 \ 0.017$	r	1m0-11
2015-01-05	2457028.333	$15.517 \ 0.015$	V	1m0-10	2014-10-02	2456933.070	$15.141\ 0.018$	r	1m0-11
2015-01-05	2457028.356	15.588 0.018	V	1m0-12	2014-10-02	2456933.071	$14.962\ 0.015$	r	1m0-11
2015-01-05	2457028.358	15.564 0.015	V	1m0-12	2014-10-04	2456934.552	15.006 0.018	r	1m0-12
2015-01-09	2457031.971	$15.588 \ 0.018$	V	1m0-03	2014-10-04	2456934.553	$14.997 \ 0.018$	r	1m0-12
2015-01-09	2457031.973	15.443 0.023	V	1m0-03	2014-10-05	2456936.269	14.931 0.020	r	1m0-11
2015-01-11	2457034.323	15.686 0.015	V	1m0-12	2014-10-05	2456936.269	14.961 0.018	r	1m0-11
2015-01-11	2457034.324	15.675 0.016	V	1m0-12	2014-10-07	2456938.048	15.039 0.016	r	1m0-11
2015-01-13	2457036.465	$15.822\ 0.029$	V	1m0-13	2014-10-07	2456938.049	14.987 0.017	r	1m0-11
2015-01-17	2457039.723	15.792 0.016	V	1m0-05	2014-10-09	2456940.039	15.075 0.018	r	1m0-03
2015-01-17	2457039.725	15.801 0.018	V	1m0-05	2014-10-09	2456940.039	14.998 0.019	r	1m0-11
2015-01-18	2457041.461	15.908 0.015	V	1m0-12	2014-10-09	2456940.120	15.084 0.017	r	1m0-03
2015-01-18	2457041.462	15.923 0.015	V	1m0-12	2014-10-11	2456942.031	14.873 0.030	r	1m0-03
2015-01-20	2457043.300	16.002 0.018	\dot{V}	1m0-10	2014-10-11	2456942.032	14.871 0.034	r	1m0-03
2015-01-20	2457043.301	16.000 0.017	\overline{V}	1m0-10	2014-10-16	2456947.237	14.986 0.026	r	1m0-11
2015-01-22	2457045.316	16.360 0.016	$\stackrel{\cdot}{V}$	1m0-10	2014-10-16	2456947.238	15.004 0.025	$\overset{\cdot}{r}$	1m0-11
2015-01-22	2457045.318	16.556 0.018	$\stackrel{\cdot}{V}$	1m0-10	2014-10-17	2456948.020	15.181 0.022	$\overset{'}{r}$	1m0-03
2015-01-25	2457047.966	17.557 0.050	$\stackrel{\cdot}{V}$	1m0-11	2014-10-17	2456948.021	15.038 0.021	$\overset{\cdot}{r}$	1m0-03
2015-01-25	2457047.968	17.481 0.042	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-11	2014-10-17	2456953.357	14.960 0.022	$\overset{\prime}{r}$	1m0-03
2015-01-27	2457047.508	19.126 0.069	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-05	2014-10-22	2456953.357	14.970 0.024	$\overset{\prime}{r}$	1m0-12 1m0-12
2015-01-27	2457049.623	19.274 0.089	$\stackrel{\scriptstyle V}{V}$	1m0-05	2014-10-22	2456959.107	14.835 0.020	r	1m0-12 1m0-11
2015-01-27	2457049.023	18.999 0.083	$\stackrel{\scriptstyle V}{V}$	1m0-03	2014-10-28	2456959.107	14.907 0.027		1m0-11 1m0-11
2015-01-30	2457055.617	19.367 0.181	V = V	1m0-05 1m0-05	2014-10-28	2456965.034	14.915 0.016	r	1m0-11 1m0-11
2015-02-03		$19.367 \ 0.181$ < 18.962	V V	1m0-05 1m0-12	2014-11-03			$r \\ r$	1m0-11 1m0-11
2015-02-04	2457058.400					2456965.035	14.940 0.017	r	
	2457058.402	19.380 0.157	V	1m0-12	2014-11-09	2456970.952	14.951 0.085	r	1m0-11
2015-03-03	2457084.534	< 18.895	V	1m0-04	2014-11-15	2456977.201	$15.092 \ 0.033$	r	1m0-03

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

		notometric Dat		(1)					(1)
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-21	2456982.728	14.958 0.029	r	1m0-05	2015-02-08	2457062.049	$18.706 \ 0.095$	r	1m0-03
2014-11-21	2456982.728	$14.944 \ 0.027$	r	1m0-05	2015-02-10	2457064.366	18.712 0.081	r	1m0-12
2014-11-27	2456989.419	$14.905 \ 0.020$	r	1m0-10	2015-02-10	2457064.368	$18.618 \ 0.057$	r	1m0-12
2014-11-27	2456989.420	$14.942 \ 0.021$	r	1m0-10	2015-02-11	2457065.011	18.544 0.041	r	1m0-11
2014-12-04	2456996.190	$14.957 \ 0.016$	r	1m0-03	2015-02-11	2457065.014	$18.619 \ 0.065$	r	1m0-11
2014-12-04	2456996.190	$14.987 \ 0.017$	r	1m0-03	2015-02-16	2457069.944	$18.531 \ 0.107$	r	1m0-11
2014-12-10	2457001.824	$14.941 \ 0.028$	r	1m0-05	2015-02-16	2457069.946	18.496 0.110	r	1m0-11
2014-12-10	2457001.825	$14.936 \ 0.029$	r	1m0-05	2015-03-03	2457084.535	$18.739 \ 0.057$	r	1m0-09
2014-12-11	2457002.751	14.936 0.019	r	1m0-05	2015-03-03	2457084.539	18.707 0.066	r	1m0-09
2014-12-11	2457002.752	14.941 0.018	r	1m0-05	2015-03-08	2457089.551	18.598 0.041	r	1m0-04
2014-12-16	2457008.458	14.918 0.018	r	1m0-12	2015-03-08	2457089.555	$18.754 \ 0.060$	r	1m0-04
2014-12-16	2457008.458	14.904 0.018	r	1m0-12	2015-03-09	2457090.558	18.700 0.046	r	1m0-09
2014-12-22	2457014.297	$14.960\ 0.024$	r	1m0-10	2015-03-09	2457090.563	18.574 0.050	r	1m0-09
2014-12-22	2457014.298	14.853 0.029	r	1m0-10	2015-03-11	2457092.518	18.687 0.055	r	1m0-09
2014-12-22	2457014.324	14.970 0.017	r	1m0-13	2015-03-11	2457092.523	18.904 0.067	r	1m0-09
2014-12-22	2457014.325	14.883 0.037	r	1m0-13	2014-09-11	2456912.287	15.161 0.016	i	1m0-11
2014-12-23	2457015.330	14.797 0.032	r	1m0-12	2014-09-11	2456912.288	15.098 0.017	i	1m0-11
2014-12-23	2457015.332	15.014 0.044	r	1m0-12	2014-09-13	2456913.564	15.213 0.024	i	1m0-12
2014-12-25	2457017.343	14.905 0.023	r	1m0-12	2014-09-13	2456913.566	15.211 0.020	i	1m0-12
2014-12-25	2457017.344	14.880 0.024	r	1m0-12	2014-09-13	2456913.631	15.243 0.021	i	1m0-12
2014-12-25	2457017.369	14.807 0.021	r	1m0-12	2014-09-13	2456913.633	15.244 0.019	i	1m0-12
2014-12-25	2457017.371	14.996 0.018	r	1m0-12	2014-09-14	2456914.607	15.121 0.019	i	1m0-10
2014-12-27	2457019.384	15.001 0.017	r	1m0-10	2014-09-14	2456914.608	15.196 0.017	i	1m0-10
2014-12-27	2457019.385	14.964 0.018	r	1m0-10	2014-09-14	2456914.895	15.234 0.008	i	1m0-05
2014-12-31	2457022.761	14.984 0.024	r	1m0-05	2014-09-14	2456914.897	15.259 0.008	i	1m0-05
2014-12-31	2457022.762	15.037 0.021	r	1m0-05	2014-09-14	2456915.114	15.225 0.024	i	1m0-03
2015-01-02	2457025.058	15.069 0.019	r	1m0-11	2014-09-14	2456915.116	15.197 0.024	i	1m0-03
2015-01-02 2015-01-03	2457025.059	15.030 0.020	r	1m0-11	2014-09-14	2456915.272	15.156 0.022	i	1m0-11
	2457026.476	15.127 0.020	r	1m0-12	2014-09-14	2456915.273	15.153 0.021	i	1m0-11
2015-01-03	2457026.478	15.118 0.020	$r \\ r$	1m0-12	2014-09-14	$2456915.295 \\ 2456915.297$	15.091 0.023	$i \\ i$	1m0-11 1m0-11
2015-01-05 2015-01-05	$2457028.341 \\ 2457028.342$	15.064 0.018 15.099 0.018	$r \\ r$	1m0-10 1m0-10	2014-09-14 2014-09-15	2456915.297	15.140 0.021 15.193 0.018	$i \\ i$	1m0-11 1m0-12
2015-01-05	2457028.365	15.088 0.019	r = r	1m0-10 1m0-12	2014-09-15	2456916.498	15.187 0.018	$i \\ i$	1m0-12 1m0-12
2015-01-05	2457028.366	15.084 0.019	r = r	1m0-12 1m0-12	2014-09-15	2456916.829	15.152 0.011	$i \\ i$	1m0-12 1m0-09
2015-01-09	2457023.300	15.237 0.023	r	1m0-12 1m0-03	2014-09-16	2456917.257	15.074 0.036	$i \\ i$	1m0-09 1m0-11
2015-01-09	2457031.980	15.167 0.025	r	1m0-03	2014-09-10	2456918.768	15.054 0.011	$i \\ i$	1m0-11 1m0-04
2015-01-03	2457034.331	15.199 0.019	r	1m0-03 1m0-12	2014-09-18	2456920.831	15.325 0.043	i = i	1m0-04 1m0-05
2015-01-11	2457034.333	15.252 0.018	r	1m0-12 1m0-12	2014-09-20	2456920.893	15.218 0.010	$i \\ i$	1m0-09
2015-01-11	2457036.473	15.326 0.030	r	1m0-12 1m0-13	2014-09-22	2456922.866	15.075 0.025	$i \over i$	1m0-09
2015-01-13	2457036.475	15.362 0.017	r	1m0-13	2014-09-22	2456922.867	15.164 0.009	i	1m0-09
2015-01-15	2457038.110	15.303 0.024	r	1m0-15	2014-09-25	2456925.893	15.121 0.011	i	1m0-03
2015-01-15	2457038.111	15.299 0.022	r	1m0-11	2014-09-26	2456926.638	15.174 0.020	i	1m0-12
2015-01-17	2457039.732	15.352 0.022	r	1m0-05	2014-09-26	2456926.639	15.160 0.022	i	1m0-12
2015-01-17	2457039.733	15.341 0.021	r	1m0-05	2014-09-30	2456931.176	15.039 0.019	i	1m0-11
2015-01-18	2457041.469	15.443 0.019	r	1m0-12	2014-09-30	2456931.177	15.115 0.020	i	1m0-11
2015-01-18	2457041.471	15.389 0.020	r	1m0-12	2014-10-02	2456933.072	14.975 0.019	i	1m0-11
2015-01-20	2457043.308	15.515 0.018	r	1m0-10	2014-10-02	2456933.073	15.098 0.018	i	1m0-11
2015-01-20	2457043.310	15.442 0.020	r	1m0-10	2014-10-04	2456934.554	15.123 0.019	i	1m0-12
2015-01-22	2457045.329	15.802 0.019	r	1m0-10	2014-10-04	2456934.555	15.126 0.021	i	1m0-12
2015-01-22	2457045.332	15.912 0.020	r	1m0-10	2014-10-05	2456936.270	15.041 0.021	i	1m0-11
2015-01-25	2457047.979	17.046 0.030	r	1m0-11	2014-10-05	2456936.271	15.087 0.028	i	1m0-11
2015-01-25	2457047.982	16.945 0.031	r	1m0-11	2014-10-07	2456938.050	15.028 0.019	i	1m0-11
2015-01-28	2457051.418	$18.374\ 0.052$	r	1m0-10	2014-10-07	2456938.050	15.069 0.021	i	1m0-11
2015-01-28	2457051.421	$18.457 \ 0.055$	r	1m0-10	2014-10-09	2456940.041	$15.135\ 0.020$	i	1m0-03
2015-01-30	2457053.025	$18.480\ 0.078$	r	1m0-11	2014-10-09	2456940.041	$15.104\ 0.021$	i	1m0-11
2015-01-30	2457053.028	$18.535 \ 0.072$	r	1m0-11	2014-10-11	2456942.033	$15.092\ 0.029$	i	1m0-03
2015-02-01	2457055.031	$18.625\ 0.090$	r	1m0-11	2014-10-11	2456942.034	15.050 0.031	i	1m0-03
2015-02-04	2457058.402	$18.771\ 0.098$	r	1m0-10	2014-10-17	2456948.021	$14.999 \ 0.023$	i	1m0-03
2015-02-06	2457060.313	$18.482\ 0.059$	r	1m0-12	2014-10-17	2456948.022	$15.033\ 0.026$	i	1m0-03
2015-02-06	2457060.315	$18.544\ 0.056$	r	1m0-12	2014-10-22	2456953.358	$14.883\ 0.023$	i	1m0-12

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14ha: Photometric Data

		notometric Dat		/•>					(1)
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-10-22	2456953.359	$14.890\ 0.024$	i	1m0-12	2015-01-13	2457036.479	$15.242\ 0.030$	i	1m0-13
2014-10-28	2456959.109	$14.924\ 0.020$	i	1m0-11	2015-01-15	2457038.113	$15.309 \ 0.021$	i	1m0-11
2014-11-03	2456965.036	$14.946 \ 0.019$	i	1m0-11	2015-01-15	2457038.114	$15.301\ 0.022$	i	1m0-11
2014-11-03	2456965.036	$14.842\ 0.020$	i	1m0-11	2015-01-17	2457039.735	$15.281 \ 0.024$	i	1m0-05
2014-11-09	2456970.954	$15.028 \ 0.145$	i	1m0-11	2015-01-17	2457039.737	$15.265 \ 0.024$	i	1m0-05
2014-11-15	2456977.202	$15.053 \ 0.033$	i	1m0-03	2015-01-18	2457041.472	$15.228\ 0.023$	i	1m0-12
2014-11-15	2456977.203	$14.998 \ 0.033$	i	1m0-03	2015-01-18	2457041.474	$15.270\ 0.021$	i	1m0-12
2014-11-21	2456982.729	$14.848 \ 0.031$	i	1m0-05	2015-01-20	2457043.312	$15.393 \ 0.017$	i	1m0-10
2014-11-21	2456982.730	$14.886 \ 0.028$	i	1m0-05	2015-01-20	2457043.313	$15.491 \ 0.019$	i	1m0-10
2014 - 11 - 27	2456989.421	$14.871 \ 0.021$	i	1m0-10	2015-01-22	2457045.335	$15.722\ 0.026$	i	1m0-10
2014-11-27	2456989.422	$14.885 \ 0.020$	i	1m0-10	2015-01-22	2457045.337	$15.753 \ 0.021$	i	1m0-10
2014-12-04	2456996.191	$14.820\ 0.019$	i	1m0-03	2015-01-25	2457047.984	$16.973 \ 0.074$	i	1m0-11
2014-12-04	2456996.192	$14.873\ 0.018$	i	1m0-03	2015-01-25	2457047.987	$16.911 \ 0.065$	i	1m0-11
2014-12-11	2457002.753	$14.887 \ 0.019$	i	1m0-05	2015-01-28	2457051.423	$17.866 \ 0.041$	i	1m0-10
2014-12-11	2457002.753	$14.891 \ 0.020$	i	1m0-05	2015-01-28	2457051.426	$17.910\ 0.048$	i	1m0-10
2014-12-16	2457008.459	$14.819\ 0.019$	i	1m0-12	2015-01-30	2457053.030	$17.939 \ 0.054$	i	1m0-11
2014-12-16	2457008.460	$14.862\ 0.020$	i	1m0-12	2015-01-30	2457053.033	$17.992 \ 0.069$	i	1m0-11
2014-12-22	2457014.300	$14.929 \ 0.020$	i	1m0-10	2015-02-01	2457055.036	$17.856 \ 0.080$	i	1m0-11
2014-12-22	2457014.326	$14.989 \ 0.026$	i	1m0-13	2015-02-01	2457055.039	$17.737 \ 0.070$	i	1m0-11
2014-12-22	2457014.327	$15.062 \ 0.025$	i	1m0-13	2015-02-03	2457056.930	$17.837 \ 0.062$	i	1m0-03
2014-12-23	2457015.334	$14.862\ 0.021$	i	1m0-12	2015-02-03	2457056.932	$17.971 \ 0.067$	i	1m0-03
2014-12-23	2457015.335	$14.921 \ 0.019$	i	1m0-12	2015-02-04	2457058.405	$18.027 \ 0.062$	i	1m0-10
2014-12-25	2457017.372	$14.962 \ 0.019$	i	1m0-12	2015-02-04	2457058.407	$18.213\ 0.100$	i	1m0-10
2014-12-25	2457017.374	$14.941 \ 0.019$	i	1m0-12	2015-02-06	2457060.318	$18.137 \ 0.066$	i	1m0-12
2014-12-27	2457019.387	$14.955 \ 0.016$	i	1m0-10	2015-02-06	2457060.320	$18.098 \ 0.066$	i	1m0-12
2014-12-27	2457019.389	$14.929 \ 0.015$	i	1m0-10	2015-02-08	2457062.054	$18.187 \ 0.074$	i	1m0-03
2014-12-31	2457022.764	$14.952 \ 0.026$	i	1m0-05	2015-02-08	2457062.057	$18.129 \ 0.084$	i	1m0-03
2014-12-31	2457022.766	$14.954 \ 0.027$	i	1m0-05	2015-02-10	2457064.371	$17.964\ 0.060$	i	1m0-12
2015-01-02	2457025.061	$14.979 \ 0.020$	i	1m0-11	2015-02-10	2457064.373	$18.010 \ 0.042$	i	1m0-12
2015-01-02	2457025.063	$14.982\ 0.020$	i	1m0-11	2015-02-11	2457065.017	$18.043 \ 0.058$	i	1m0-11
2015-01-03	2457026.479	$15.071 \ 0.022$	i	1m0-12	2015-02-11	2457065.019	$18.030 \ 0.056$	i	1m0-11
2015-01-03	2457026.481	$15.053 \ 0.022$	i	1m0-12	2015-02-16	2457069.949	$17.848 \ 0.130$	i	1m0-11
2015-01-05	2457028.346	$15.087 \ 0.018$	i	1m0-10	2015-03-03	2457084.543	$18.241 \ 0.041$	i	1m0-09
2015-01-05	2457028.368	$15.039 \ 0.017$	i	1m0-12	2015-03-03	2457084.547	$18.211 \ 0.046$	i	1m0-09
2015-01-09	2457031.983	$15.133\ 0.023$	i	1m0-03	2015-03-08	2457089.559	$18.196 \ 0.042$	i	1m0-04
2015-01-09	2457031.985	$15.107 \ 0.021$	i	1m0-03	2015-03-08	2457089.563	$18.345 \ 0.068$	i	1m0-04
2015-01-11	2457034.335	$15.183\ 0.020$	i	1m0-12	2015-03-09	2457090.568	$18.109 \ 0.038$	i	1m0-09
2015 - 01 - 11	2457034.336	$15.115\ 0.020$	i	1m0-12	2015-03-09	2457090.573	$18.199\ 0.044$	i	1m0-09
2015-01-13	2457036.477	15.177 0.030	i	1m0-13	2015-03-11	2457092.529	18.217 0.029	i	1m0-09

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

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Table D1: ASASSN-14dq: Photometric Data

Date	JD	1000000000000000000000000000000000000	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-07-10	2456849.241	15.966 0.039	B	1m0-11	2014-11-20	2456981.628	20.588 0.110	B	1m0-08
2014-07-10	2456849.244	15.984 0.040	\overline{B}	1m0-11	2014-11-25	2456986.643	20.410 0.109	\overline{B}	1m0-08
2014-07-12	2456850.577	15.957 0.018	\overline{B}	1m0-12	2014-11-25	2456986.650	20.494 0.123	B	1m0-08
2014-07-12	2456850.579	15.996 0.017	$\stackrel{\mathcal{L}}{B}$	1m0-12	2014-11-28	2456989.536	20.527 0.116	\overline{B}	1m0-08
2014-07-22	2456860.554	16.192 0.015	\overline{B}	1m0-13	2014-11-28	2456989.543	20.607 0.109	\overline{B}	1m0-08
2014-07-22	2456860.556	16.355 0.017	\overline{B}	1m0-13	2014-11-28	2456989.649	20.277 0.099	\overline{B}	1m0-08
2014-07-24	2456862.554	16.257 0.035	\overline{B}	1m0-10	2014-11-28	2456989.656	20.461 0.175	\overline{B}	1m0-08
2014-07-24	2456862.557	16.231 0.035	\overline{B}	1m0-10	2014-11-30	2456991.622	20.546 0.201	\overline{B}	1m0-08
2014-07-26	2456864.830	16.470 0.024	B	1m0-08	2014-11-30	2456991.629	20.559 0.170	B	1m0-08
2014-07-26	2456864.833	16.475 0.018	B	1m0-08	2014-12-02	2456993.633	20.506 0.245	B	1m0-08
2014-07-28	2456867.188	16.604 0.015	B	1m0-11	2014-12-14	2457005.551	20.480 0.143	B	1m0-08
2014-07-28	2456867.191	16.609 0.036	B	1m0-11	2014-12-14	2457005.558	20.966 0.161	B	1m0-08
2014-07-30	2456869.163	16.776 0.013	B	1m0-03	2014-12-15	2457006.551	$20.520\ 0.152$	B	1m0-08
2014-07-30	2456869.165	$16.703 \ 0.016$	B	1m0-03	2014-12-15	2457006.558	$20.633 \ 0.165$	B	1m0-08
2014-08-01	2456871.179	$16.919 \ 0.018$	B	1m0-11	2014-12-16	2457007.537	$20.540\ 0.181$	B	1m0-08
2014-08-01	2456871.182	$16.864\ 0.016$	B	1m0-11	2014-12-16	2457007.544	$20.582\ 0.148$	B	1m0-08
2014-08-02	2456872.181	$16.883\ 0.017$	B	1m0-03	2014-12-29	2457020.565	$20.919 \ 0.353$	B	1m0-08
2014-08-02	2456872.183	$16.901\ 0.017$	B	1m0-03	2014-12-30	2457021.559	$21.098 \ 0.430$	B	1m0-08
2014-08-03	2456873.466	$16.968 \ 0.020$	B	1m0-10	2014-07-12	2456850.585	$15.879\ 0.015$	g	1m0-12
2014-08-03	2456873.468	$16.969 \ 0.023$	B	1m0-10	2014-07-12	2456850.588	$15.845 \ 0.014$	g	1m0-12
2014-08-05	2456875.072	$17.027\ 0.018$	B	1m0-03	2014-07-22	2456860.562	$16.009 \ 0.016$	g	1m0-13
2014-08-05	2456875.075	$17.015 \ 0.018$	B	1m0-03	2014-07-22	2456860.565	$16.060 \ 0.009$	g	1m0-13
2014-08-09	2456879.153	$17.090\ 0.026$	B	1m0-11	2014-07-24	2456862.563	$16.138 \ 0.013$	g	1m0-10
2014-08-09	2456879.156	$17.105 \ 0.028$	B	1m0-11	2014-07-24	2456862.565	$16.119\ 0.010$	g	1m0-10
2014-08-14	2456884.457	$17.216\ 0.029$	B	1m0-13	2014-07-26	2456864.839	$16.227 \ 0.015$	g	1m0-08
2014-08-14	2456884.459	$17.242\ 0.033$	B	1m0-13	2014-07-26	2456864.841	$16.205 \ 0.015$	g	1m0-08
2014-08-20	2456890.069	$17.346\ 0.021$	B	1m0-11	2014-07-28	2456867.197	$16.289 \ 0.011$	g	1m0-11
2014-08-20	2456890.071	$17.403 \ 0.021$	B	1m0-11	2014-07-30	2456869.171	$16.331 \ 0.015$	g	1m0-03
2014-08-20	2456890.154	$17.410\ 0.022$	B	1m0-03	2014-07-30	2456869.174	$16.352\ 0.015$	g	1m0-03
2014-08-20	2456890.156	$17.385 \ 0.020$	B	1m0-03	2014-08-01	2456871.188	16.501 0.010	g	1m0-11
2014-08-26	2456896.470	$17.558 \ 0.034$	B	1m0-10	2014-08-01	2456871.190	16.485 0.010	g	1m0-11
2014-08-26	2456896.472	$17.594 \ 0.025$	B	1m0-10	2014-08-02	2456872.189	$16.523 \ 0.010$	g	1m0-03
2014-09-07	2456908.090	17.899 0.077	B	1m0-03	2014-08-02	2456872.192	16.519 0.011	g	1m0-03
2014-09-07	2456908.092	17.734 0.072	B	1m0-03	2014-08-03	2456873.475	16.571 0.024	g	1m0-10
2014-09-10	2456911.419	17.778 0.033	B	1m0-12	2014-08-03	2456873.477	16.587 0.018	g	1m0-10
2014-09-10	2456911.422	17.727 0.046	B	1m0-12	2014-08-05	2456875.081	16.552 0.013	g	1m0-03
2014-09-17	2456918.045	17.947 0.023	B	1 m 0 - 03	2014-08-05	2456875.083	16.559 0.012	g	1m0-03
2014-09-17	2456918.049	17.953 0.025	B	1m0-03	2014-08-09	2456879.162	16.625 0.018	g	1m0-11
2014-09-29	2456930.051	17.941 0.216	B	1m0-11	2014-08-09	2456879.164	16.598 0.018	g	1m0-11
2014-10-03	2456934.252	18.482 0.058	B	1m0-10	2014-08-14	2456884.465	16.754 0.016	g	1m0-13
2014-10-03	2456934.258	18.566 0.062	$B \\ B$	1m0-10	2014-08-14	2456884.468	16.799 0.016	g	1m0-13
2014-10-06 2014-10-06	2456936.971 2456936.976	18.648 0.123 18.841 0.126	В	1m0-03	2014-08-20 2014-08-20	2456890.077 2456890.080	16.838 0.013 16.851 0.013	g	1m0-11
2014-10-00	2456940.601	19.121 0.071	B	1m0-03 1m0-08	2014-08-20	2456890.080	16.858 0.011	g	1m0-11 1m0-03
2014-10-10	2456940.606	19.092 0.089	B	1m0-08	2014-08-20	2456890.165	16.883 0.011	g	1m0-03 1m0-03
2014-10-10	2456942.699	19.410 0.073	B	1m0-08	2014-08-26	2456896.478	16.961 0.012	$\frac{g}{a}$	1m0-03 1m0-10
2014-10-12	2456942.704	19.422 0.064	B	1m0-08	2014-08-26	2456896.481	16.971 0.011	g	1m0-10 1m0-10
2014-10-12	2456945.632	19.773 0.055	B	1m0-08	2014-09-07	2456908.098	17.117 0.171	g	1m0-10 1m0-03
2014-10-15	2456945.637	19.628 0.055	B	1m0-08	2014-09-07	2456908.430	17.012 0.044	g	1m0-03
2014-10-18	2456948.598	19.999 0.070	B	1m0-08	2014-09-07	2456908.433	17.143 0.056	g	1m0-10
2014-10-18	2456948.603	19.996 0.076	B	1m0-08	2014-09-10	2456911.431	17.160 0.026	$rac{g}{g}$	1m0-10 1m0-12
2014-10-21	2456951.991	20.229 0.250	B	1m0-11	2014-09-10	2456911.435	17.164 0.026		1m0-12
2014-10-21	2456951.995	20.078 0.246	B	1m0-11	2014-09-17	2456918.058	17.339 0.013	$rac{g}{g}$	1m0-12
2014-10-21	2456954.331	20.085 0.086	B	1m0-11	2014-09-17	2456918.061	17.331 0.013	g = g	1m0-03
2014-10-23	2456955.287	20.074 0.163	B	1m0-13	2014-09-17	2456924.071	17.427 0.016	g = g	1m0-05
2014-10-24	2456969.696	20.772 0.400	B	1m0-19	2014-09-23	2456924.074	17.409 0.019	g = g	1m0-11
2014-11-08	2456969.703	20.510 0.308	B	1m0-08	2014-09-29	2456930.063	17.445 0.038	g	1m0-11
2014-11-19	2456980.659	20.842 0.188	B	1m0-08	2014-09-29	2456930.067	17.537 0.048	g	1m0-11
2014-11-19	2456980.666	20.686 0.158	\overline{B}	1m0-08	2014-10-03	2456934.298	17.848 0.027	g	1m0-10
2014-11-20	2456981.621	20.631 0.150	$\stackrel{\mathcal{L}}{B}$	1m0-08	2014-10-03	2456934.303	17.656 0.030	g	1m0-10
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⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14dq: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-10-06	2456936.972	17.911 0.054	g	1m0-11	2014-07-24	2456862.561	16.081 0.022	\overline{V}	1m0-10
2014-10-06	2456936.977	17.910 0.042	g	1m0-11	2014-07-26	2456864.835	16.096 0.022	V	1m0-08
2014-10-10	2456940.619	$18.262 \ 0.022$	g	1m0-08	2014-07-26	2456864.837	16.069 0.016	V	1m0-08
2014-10-10	2456940.624	$18.317 \ 0.024$	g	1m0-08	2014-07-28	2456867.193	$16.089 \ 0.015$	V	1m0-11
2014-10-12	2456942.965	$18.507 \ 0.032$	g	1m0-11	2014-07-28	2456867.195	$16.089 \ 0.015$	V	1m0-11
2014-10-12	2456942.970	$18.502 \ 0.032$	g	1m0-11	2014-07-30	2456869.168	$16.154\ 0.016$	V	1m0-03
2014-10-15	2456945.686	$18.895 \ 0.022$	g	1m0-08	2014-07-30	2456869.170	$16.131\ 0.016$	V	1m0-03
2014-10-15	2456945.690	$18.897 \ 0.025$	g	1m0-08	2014-08-01	2456871.184	$16.282\ 0.013$	V	1m0-11
2014-10-18	2456948.616	$19.216\ 0.030$	g	1m0-08	2014-08-01	2456871.186	$16.244\ 0.014$	V	1m0-11
2014-10-18	2456948.621	$19.250\ 0.026$	g	1m0-08	2014-08-02	2456872.186	$16.248 \ 0.015$	V	1m0-03
2014-10-21	2456952.264	$19.207 \ 0.040$	g	1m0-13	2014-08-02	2456872.188	$16.272\ 0.014$	V	1m0-03
2014-10-21	2456952.269	$19.207 \ 0.042$	g	1m0-13	2014-08-03	2456873.471	$16.282 \ 0.013$	V	1m0-10
2014-10-24	2456954.753	19.449 0.031	g	1m0-08	2014-08-03	2456873.473	16.262 0.016	V	1m0-10
2014-10-27	2456957.749	19.480 0.031	g	1m0-08	2014-08-05	2456875.078	16.279 0.015	V	1m0-03
2014-10-27	2456957.754	19.490 0.036	g	1m0-08	2014-08-05	2456875.079	16.281 0.015	V	1m0-03
2014-10-30	2456960.890	19.429 0.066	g	1m0-03	2014-08-09	2456879.158	16.413 0.015	V	1m0-11
2014-10-30	2456960.895	19.492 0.053	g	1m0-03	2014-08-09	2456879.160	16.288 0.016	V	1m0-11
2014-11-05 2014-11-08	2456966.922	$19.280 \ 0.179$ $19.510 \ 0.110$	g	1m0-11 1m0-08	2014-08-14	2456884.462	16.434 0.019	$V \ V$	1m0-13
2014-11-08	2456969.718 2456969.725	19.606 0.113	g	1m0-08	2014-08-14 2014-08-20	$2456884.464 \\ 2456890.074$	16.400 0.020 16.478 0.014	V V	1m0-13 1m0-11
2014-11-08	2456980.681	19.968 0.053	$rac{g}{g}$	1m0-08	2014-08-20	2456890.076	16.458 0.015	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-11
2014-11-19	2456980.688	19.938 0.053		1m0-08	2014-08-20	2456890.159	16.538 0.015	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-03
2014-11-19	2456981.643	19.735 0.040	$rac{g}{g}$	1m0-08	2014-08-20	2456890.160	16.520 0.016	$\stackrel{v}{V}$	1m0-03
2014-11-20	2456981.650	19.759 0.035	g	1m0-08	2014-08-26	2456896.475	16.560 0.020	$\stackrel{\cdot}{V}$	1m0-10
2014-11-28	2456989.558	19.752 0.045	g	1m0-08	2014-08-26	2456896.477	16.574 0.020	$\stackrel{\centerdot}{V}$	1m0-10
2014-11-28	2456989.565	19.855 0.052	g	1m0-08	2014-09-07	2456908.095	16.676 0.035	\overline{V}	1m0-03
2014-11-28	2456989.671	19.935 0.055	g	1m0-08	2014-09-07	2456908.096	16.738 0.034	\overline{V}	1m0-03
2014-11-28	2456989.678	19.780 0.046	g	1m0-08	2014-09-07	2456908.427	16.675 0.054	V	1m0-10
2014-11-30	2456991.644	19.902 0.091	g	1m0-08	2014-09-07	2456908.429	16.640 0.054	V	1m0-10
2014-11-30	2456991.651	$19.948 \ 0.117$	g	1m0-08	2014-09-10	2456911.426	$16.756 \ 0.025$	V	1m0-12
2014-12-02	2456993.655	$20.046\ 0.136$	g	1m0-08	2014-09-10	2456911.429	$16.744\ 0.022$	V	1m0-12
2014-12-02	2456993.662	$20.012\ 0.155$	g	1m0-08	2014-09-17	2456918.052	$16.872\ 0.015$	V	1m0-03
2014-12-14	2457005.573	$20.044\ 0.052$	g	1m0-08	2014-09-17	2456918.055	$16.861\ 0.014$	V	1m0-03
2014-12-14	2457005.580	$20.029\ 0.052$	g	1m0-08	2014-09-23	2456924.066	$16.820\ 0.017$	V	1m0-11
2014-12-15	2457006.573	$20.274\ 0.083$	g	1m0-08	2014-09-23	2456924.068	$16.870\ 0.016$	V	1m0-11
2014-12-15	2457006.580	$20.063 \ 0.067$	g	1m0-08	2014-09-29	2456930.061	$17.109 \ 0.037$	V	1m0-11
2014-12-16	2457007.559	$19.951 \ 0.047$	g	1m0-08	2014-10-03	2456934.263	$17.294\ 0.023$	V	1m0-10
2014-12-16	2457007.566	19.968 0.046	g	1m0-08	2014-10-03	2456934.266	$17.233 \ 0.024$	V	1m0-10
2014-12-25	2457016.581	20.111 0.094	g	1m0-08	2014-10-06	2456936.981	17.393 0.037	V	1m0-03
2014-12-25	2457016.588	20.380 0.103	g	1m0-08	2014-10-06	2456936.985	17.341 0.028	V	1m0-03
2014-12-29	2457020.587	20.246 0.154	g	1m0-08	2014-10-10	2456940.611	17.644 0.021	V	1m0-08
2014-12-30	2457021.574	20.167 0.290	g	1m0-08	2014-10-10	2456940.614	17.637 0.023	V	1m0-08
2014-12-30	2457021.581	20.063 0.159	g	1m0-08	2014-10-12	2456942.709	17.936 0.025	V	1m0-08
2015-05-22	2457164.895	20.619 0.102	g	1m0-09	2014-10-12	2456942.712	17.950 0.020	V	1m0-08
2015-05-22 2015-05-22	2457164.901	20.564 0.103 20.976 0.108	g	1m0-09 1m0-05	2014-10-15	2456945.642 2456945.646	18.283 0.027 18.306 0.029	$V \ V$	1m0-08 1m0-08
2015-05-22	2457164.910	21.174 0.119	g	1 m 0 - 0 5 1 m 0 - 0 5				V = V	
2015-05-22	2457164.915 2457165.906	21.569 0.168	g	1m0-03 1m0-04	2014-10-18	2456948.608 2456948.611	18.654 0.024 18.669 0.026	V = V	1m0-08 1m0-08
2015-05-23	2457165.900	21.969 0.228	g	1m0-04 1m0-04	2014-10-18	2456952.000	18.812 0.049	$\stackrel{\scriptstyle V}{V}$	1m0-08 1m0-11
2015-06-06	2457179.912	21.665 0.496	g	1m0-04 1m0-09	2014-10-21	2456952.004	18.857 0.065	$\stackrel{V}{V}$	1m0-11 1m0-11
2015-06-06	2457179.917	21.030 0.430	$rac{g}{g}$	1m0-09	2014-10-21	2456954.336	18.902 0.058	$\stackrel{V}{V}$	1m0-11 1m0-13
2014-06-27	2456836.000	< 17.400	$\stackrel{g}{V}$	Atel/CBAT	2014-10-23	2456955.292	18.993 0.063	$\stackrel{V}{V}$	1m0-13
2014-07-08	2456847.000	15.700 0.100	$\stackrel{r}{V}$	Atel/CBAT	2014-10-24	2456955.296	18.970 0.056	$\stackrel{r}{V}$	1m0-13
2014-07-10	2456849.246	15.767 0.149	V	1m0-11	2014-10-30	2456961.301	18.770 0.067	$\stackrel{\centerdot}{V}$	1m0-13
2014-07-10	2456849.248	15.830 0.028	V	1m0-11	2014-11-05	2456967.263	19.287 0.188	$\stackrel{\cdot}{V}$	1m0-13
2014-07-12	2456850.582	15.796 0.019	V	1m0-12	2014-11-05	2456967.266	19.125 0.171	$\stackrel{\cdot}{V}$	1m0-13
2014-07-12	2456850.583	15.844 0.020	V	1m0-12	2014-11-05	2456967.297	18.838 0.109	V	1m0-10
2014-07-22	2456860.559	16.057 0.022	\overline{V}	1m0-13	2014-11-05	2456967.301	19.035 0.117	\overline{V}	1m0-10
2014-07-22	2456860.561	$16.030\ 0.017$	V	1m0-13	2014-11-08	2456969.711	19.000 0.100	V	1m0-08
2014-07-24	2456862.560	$16.039\ 0.017$	V	1m0-10	2014-11-08	2456969.714	$19.033\ 0.104$	V	1m0-08

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14dq: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-19	2456980.673	19.449 0.069	V	1m0-08	2014-09-17	2456918.065	16.444 0.011	r	1m0-03
2014-11-19	2456980.677	19.384 0.063	V	1m0-08	2014-09-17	2456918.068	$16.452\ 0.012$	r	1m0-03
2014-11-20	2456981.635	19.165 0.048	V	1m0-08	2014-09-23	2456924.078	$16.549\ 0.010$	r	1m0-11
2014-11-20	2456981.639	$19.139\ 0.042$	V	1m0-08	2014-09-23	2456924.081	$16.530\ 0.011$	r	1m0-11
2014-11-25	2456986.657	$19.444\ 0.065$	V	1m0-08	2014-10-03	2456934.308	16.730 0.013	r	1m0-10
2014-11-25	2456986.661	19.276 0.063	V	1m0-08	2014-10-03	2456934.312	$16.745 \ 0.016$	r	1m0-10
2014-11-28	2456989.550	19.386 0.054	V	1m0-08	2014-10-06	2456936.982	16.880 0.022	r	1m0-11
2014-11-28	2456989.554	19.312 0.040	V	1m0-08	2014-10-06	2456936.986	$16.849\ 0.021$	r	1m0-11
2014-11-28	2456989.663	19.389 0.073	V	1m0-08	2014-10-10	2456940.629	17.112 0.015	r	1m0-08
2014-11-28	2456989.667	19.344 0.062	V	1m0-08	2014-10-10	2456940.633	$17.122\ 0.015$	r	1m0-08
2014-11-29	2456990.664	$19.355 \ 0.126$	V	1m0-08	2014-10-12	2456942.975	17.313 0.022	r	1m0-11
2014-11-29	2456990.667	19.342 0.120	V	1m0-08	2014-10-12	2456942.979	$17.356\ 0.017$	r	1m0-11
2014-11-30	2456991.636	19.310 0.092	V	1m0-08	2014-10-15	2456945.695	$17.576 \ 0.015$	r	1m0-08
2014-11-30	2456991.640	19.251 0.076	V	1m0-08	2014-10-15	2456945.699	17.598 0.013	r	1m0-08
2014-12-01	2456992.588	19.191 0.153	V	1m0-08	2014-10-18	2456948.625	$17.834\ 0.021$	r	1m0-08
2014-12-02	2456993.648	$19.625 \ 0.202$	V	1m0-08	2014-10-18	2456948.629	$17.826\ 0.021$	r	1m0-08
2014-12-02	2456993.651	19.339 0.121	V	1m0-08	2014-10-21	2456952.274	$17.970 \ 0.022$	r	1m0-13
2014-12-14	2457005.565	$19.529 \ 0.077$	V	1m0-08	2014-10-21	2456952.278	17.987 0.018	r	1m0-13
2014-12-14	2457005.569	19.511 0.061	V	1m0-08	2014-10-24	2456954.763	18.120 0.021	r	1m0-08
2014-12-15	2457006.565	19.598 0.090	V	1m0-08	2014-10-24	2456954.766	18.141 0.029	r	1m0-08
2014-12-15	2457006.569	19.411 0.084	V	1m0-08	2014-10-27	2456957.759	18.312 0.064	r	1m0-08
2014-12-16	2457007.552	19.521 0.067	V	1m0-08	2014-10-27	2456957.762	18.372 0.078	r	1m0-08
2014-12-16	2457007.555	19.434 0.048	V	1m0-08	2014-10-30	2456960.900	18.205 0.021	r	1m0-03
2014-12-25	2457016.573	$19.273 \ 0.095$	V	1m0-08	2014-10-30	2456960.904	18.171 0.025	r	1m0-03
2014-12-29	2457020.579	20.118 0.234	V	1m0-08	2014-11-05	2456966.927	18.353 0.062	r	1m0-11
2014-12-30	2457021.566	$20.026 \ 0.295$	V	1m0-08	2014-11-05	2456966.930	$18.237 \ 0.055$	r	1m0-11
2014-12-30	2457021.570	$19.516 \ 0.302$	V	1m0-08	2014-11-06	2456967.928	$18.356 \ 0.126$	r	1m0-11
2014-07-12	2456850.590	$15.755 \ 0.013$	r	1m0-12	2014-11-06	2456967.931	$18.157 \ 0.122$	r	1m0-11
2014-07-12	2456850.592	15.814 0.013	r	1m0-12	2014-11-08	2456969.733	18.638 0.074	r	1m0-08
2014-07-22	2456860.568	$15.820\ 0.012$	r	1m0-13	2014-11-08	2456969.737	18.455 0.061	r	1m0-08
2014-07-22	2456860.569	$15.783\ 0.016$	r	1m0-13	2014-11-14	2456975.699	18.572 0.063	r	1m0-08
2014-07-24	2456862.568	$15.852\ 0.011$	r	1m0-10	2014-11-19	2456980.695	$18.537 \ 0.029$	r	1m0-08
2014-07-24	2456862.570	$15.870\ 0.013$	r	1m0-10	2014-11-19	2456980.699	18.534 0.031	r	1m0-08
2014-07-26	2456864.844	$15.884\ 0.014$	r	1m0-08	2014-11-20	2456981.657	$18.465 \ 0.021$	r	1m0-08
2014-07-26	2456864.845	$15.841\ 0.010$	r	1m0-08	2014-11-20	2456981.661	18.479 0.023	r	1m0-08
2014-07-28	2456867.203	$15.933 \ 0.009$	r	1m0-11	2014-11-28	2456989.572	$18.552\ 0.027$	r	1m0-08
2014-07-28	2456867.204	$15.892\ 0.009$	r	1m0-11	2014-11-28	2456989.576	$18.561 \ 0.027$	r	1m0-08
2014-07-30	2456869.176	$15.957 \ 0.013$	r	1m0-03	2014-11-28	2456989.686	18.600 0.033	r	1m0-08
2014-07-30	2456869.178	$15.959 \ 0.011$	r	1m0-03	2014-11-28	2456989.689	$18.585 \ 0.035$	r	1m0-08
2014-08-01	2456871.193	$16.007 \ 0.015$	r	1m0-11	2014-11-30	2456991.658	$18.596 \ 0.047$	r	1m0-08
2014-08-02	2456872.195	16.039 0.009	r	1m0-03	2014-11-30	2456991.662	18.503 0.034	r	1m0-08
2014-08-02	2456872.196	$16.022\ 0.009$	r	1m0-03	2014-12-02	2456993.670	$18.710 \ 0.059$	r	1m0-08
2014-08-03	2456873.480	$16.087 \ 0.014$	r	1m0-10	2014-12-02	2456993.673	$18.753 \ 0.073$	r	1m0-08
2014-08-03	2456873.481	$16.055 \ 0.010$	r	1m0-10	2014-12-14	2457005.587	$18.721\ 0.035$	r	1m0-08
2014-08-05	2456875.086	$15.987 \ 0.009$	r	1m0-03	2014-12-15	2457006.588	$18.724\ 0.040$	r	1m0-08
2014-08-05	2456875.088	$16.034\ 0.008$	r	1m0-03	2014-12-15	2457006.592	$18.747 \ 0.043$	r	1m0-08
2014-08-09	2456879.167	$16.029\ 0.011$	r	1m0-11	2014-12-16	2457007.574	18.649 0.033	r	1m0-08
2014-08-09	2456879.168	$16.044\ 0.013$	r	1m0-11	2014-12-16	2457007.577	$18.613 \ 0.028$	r	1m0-08
2014-08-14	2456884.471	$16.133\ 0.011$	r	1m0-13	2014-12-25	2457016.595	$18.981 \ 0.051$	r	1m0-08
2014-08-14	2456884.472	$16.133 \ 0.012$	r	1m0-13	2014-12-25	2457016.599	$18.935 \ 0.052$	r	1m0-08
2014-08-20	2456890.083	$16.128 \ 0.010$	r	1m0-11	2014-12-30	2457021.588	$18.641 \ 0.153$	r	1m0-08
2014-08-20	2456890.084	$16.140\ 0.009$	r	1m0-11	2014-12-30	2457021.592	$19.031\ 0.164$	r	1m0-08
2014-08-20	2456890.167	$16.196\ 0.011$	r	1m0-03	2015-05-22	2457164.906	$19.824\ 0.073$	r	1m0-09
2014-08-20	2456890.169	$16.218\ 0.010$	r	1m0-03	2015-05-22	2457164.910	$19.745 \ 0.072$	r	1m0-09
2014-08-26	2456896.484	$16.223\ 0.010$	r	1m0-10	2015-05-22	2457164.920	20.615 0.130	r	1m0-05
2014-08-26	2456896.485	$16.221\ 0.010$	r	1m0-10	2015-05-22	2457164.923	$20.761\ 0.105$	r	1m0-05
2014-09-07	2456908.436	$16.287\ 0.028$	r	1m0-10	2015-05-23	2457165.917	$20.568 \ 0.162$	r	1m0-04
2014-09-07	2456908.437	$16.330\ 0.031$	r	1m0-10	2015-05-23	2457165.921	$20.495 \ 0.212$	r	1m0-04
2014-09-10	2456911.439	$16.470\ 0.017$	r	1m0-12	2015-06-05	2457178.835	$20.340\ 0.263$	r	1m0-09
2014-09-10	2456911.441	$16.385 \ 0.015$	r	1m0-12	2015-06-05	2457178.839	$20.334\ 0.271$	r	1m0-09
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⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14dq: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2015-06-06	2457179.923	$19.390\ 0.126$	r	1m0-09	2014-10-12	2456942.982	$17.302\ 0.095$	i	1m0-11
2015-06-06	2457179.927	$19.478 \ 0.155$	r	1m0-09	2014-10-12	2456942.986	$17.308 \ 0.058$	i	1m0-11
2015-06-18	2457191.913	$20.599 \ 0.099$	r	1m0-04	2014-10-15	2456945.703	$17.551 \ 0.024$	i	1m0-08
2015-06-18	2457191.917	$20.546 \ 0.091$	r	1m0-04	2014-10-15	2456945.707	$17.529 \ 0.023$	i	1m0-08
2014-07-12	2456850.594	$15.857 \ 0.015$	i	1m0-12	2014-10-18	2456948.633	$17.846 \ 0.027$	i	1m0-08
2014-07-12	2456850.595	$15.909 \ 0.015$	i	1m0-12	2014-10-18	2456948.637	$17.838 \ 0.027$	i	1m0-08
2014-07-22	2456860.571	$15.927 \ 0.018$	i	1m0-13	2014-10-21	2456952.282	$17.997 \ 0.241$	i	1m0-13
2014-07-22	2456860.573	$16.003 \ 0.014$	i	1m0-13	2014-10-21	2456952.285	$18.162 \ 0.132$	i	1m0-13
2014-07-24	2456862.572	$16.102 \ 0.039$	i	1m0-10	2014-10-24	2456954.770	$18.142\ 0.030$	i	1m0-08
2014-07-24	2456862.573	$16.027 \ 0.014$	i	1m0-10	2014-10-24	2456954.774	$18.169 \ 0.033$	i	1m0-08
2014-07-26	2456864.847	$16.021\ 0.016$	i	1m0-08	2014-10-27	2456957.766	$17.969 \ 0.029$	i	1m0-08
2014-07-26	2456864.849	$16.001 \ 0.015$	i	1m0-08	2014-10-27	2456957.770	$18.013 \ 0.027$	i	1m0-08
2014-07-28	2456867.206	$16.033 \ 0.011$	i	1m0-11	2014-10-30	2456960.908	$18.045 \ 0.034$	i	1m0-03
2014-07-30	2456869.180	$16.052\ 0.018$	i	1m0-03	2014-10-30	2456960.911	$18.070 \ 0.030$	i	1m0-03
2014-07-30	2456869.181	$16.033 \ 0.015$	i	1m0-03	2014-11-05	2456966.934	$18.133 \ 0.055$	i	1m0-11
2014-08-02	2456872.198	$16.130\ 0.013$	i	1m0-03	2014-11-05	2456966.938	$18.041 \ 0.073$	i	1m0-11
2014-08-02	2456872.199	$16.122\ 0.015$	i	1m0-03	2014-11-06	2456967.935	$18.500 \ 0.244$	i	1m0-11
2014-08-03	2456873.483	$16.146\ 0.014$	i	1m0-10	2014-11-08	2456969.741	18.408 0.088	i	1m0-08
2014-08-03	2456873.485	$16.115 \ 0.015$	i	1m0-10	2014-11-08	2456969.744	$18.241\ 0.087$	i	1m0-08
2014-08-05	2456875.089	$16.129\ 0.012$	i	1m0-03	2014-11-14	2456975.707	$18.529\ 0.110$	i	1m0-08
2014-08-05	2456875.091	16.121 0.011	i	1m0-03	2014-11-19	2456980.703	$18.519 \ 0.052$	i	1m0-08
2014-08-09	2456879.170	16.110 0.014	i	1m0-11	2014-11-20	2456981.665	18.378 0.043	i	1m0-08
2014-08-09	2456879.172	16.136 0.016	i	1m0-11	2014-11-20	2456981.669	18.446 0.039	i	1m0-08
2014-08-14	2456884.474	16.176 0.018	i	1m0-13	2014-11-28	2456989.580	18.565 0.049	i	1m0-08
2014-08-14	2456884.476	$16.221\ 0.020$	i	1m0-13	2014-11-28	2456989.583	18.580 0.040	i	1m0-08
2014-08-20	2456890.086	$16.246 \ 0.012$	i	1m0-11	2014-11-28	2456989.693	$18.617 \ 0.065$	i	1m0-08
2014-08-20	2456890.087	$16.225 \ 0.015$	i	1m0-11	2014-11-30	2456991.666	18.456 0.061	i	1m0-08
2014-08-20	2456890.171	$16.303 \ 0.015$	i	1m0-03	2014-11-30	2456991.669	18.594 0.078	i	1m0-08
2014-08-20	2456890.172	16.310 0.019	i	1m0-03	2014-12-02	2456993.677	18.717 0.096	i	1m0-08
2014-08-26	2456896.487	$16.321\ 0.014$	i	1m0-10	2014-12-02	2456993.681	18.513 0.081	i	1m0-08
2014-08-26	2456896.488	$16.330\ 0.015$	i	1m0-10	2014-12-15	2457006.595	18.879 0.068	i	1m0-08
2014-09-07	2456908.439	16.460 0.039	i	1m0-10	2014-12-15	2457006.599	$18.863 \ 0.071$	i	1m0-08
2014-09-07	2456908.440	16.447 0.041	i	1m0-10	2014-12-16	2457007.581	18.829 0.049	i	1m0-08
2014-09-10	2456911.444	$16.446 \ 0.020$	i	1m0-12	2014-12-16	2457007.585	18.651 0.043	i	1m0-08
2014-09-10	2456911.446	16.487 0.019	i	1m0-12	2014-12-30	2457021.596	19.036 0.350	i	1m0-08
2014-09-17	2456918.070	16.434 0.016	i	1m0-03	2014-12-30	2457021.599	18.746 0.333	i	1m0-08
2014-09-17	2456918.073	16.489 0.016	i	1m0-03	2015-05-22	2457164.914	$18.692\ 0.094$	i	1m0-09
2014-09-23	2456924.083	16.533 0.014	i	1m0-11	2015-05-22	2457164.918	18.318 0.107	i	1m0-09
2014-09-23	2456924.086	16.576 0.016	i	1m0-11	2015-05-22	2457164.927	20.041 0.232	i	1m0-05
2014-09-29	2456930.076	16.741 0.135	i	1m0-11	2015-05-22	2457164.931	19.898 0.219	i	1m0-05
2014-09-29	2456930.079	16.661 0.096	i	1m0-11	2015-05-23	2457165.925	20.324 0.180	i	1m0-04
2014-10-03	2456934.315	16.739 0.016	i	1m0-10	2015-05-23	2457165.929	20.376 0.142	i	1m0-04
2014-10-03	2456934.319	16.752 0.012	i	1m0-10	2015-06-05	2457178.847	20.785 0.434	i	1m0-09
2014-10-06	2456936.989	16.900 0.025	i	1m0-11	2015-06-06	2457179.931	19.571 0.263	i	1m0-09
2014-10-06	2456936.993	16.861 0.030	i	1m0-11	2015-06-06	2457179.935	19.452 0.241	i	1m0-09
2014-10-10	2456940.636	17.091 0.022	i	1m0-08	2015-06-18	2457191.921	19.573 0.127	i	1m0-04
2014-10-10	2456940.640	17.017 0.016	i	1m0-08	2015-06-18	2457191.925	19.720 0.160	i	1m0-04
2014-10-10	2400340.040	11.011 0.010	ı	11110-00	2010-00-10	2401131.320	10.120 0.100	ı	11110-04

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14gm: Photometric Data

Date	JD	$\frac{\text{Photometric Da}}{\text{mag}^{(a)}}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-09-03	2456903.529	13.756 0.070	$\frac{1}{uw2}$	Swift	2014-10-24	2456955.094	16.686 0.069	$\frac{1}{us}$	Swift
2014-09-04	2456905.125	13.848 0.070	uw2	Swift	2014-10-24	2456903.526	15.391 0.047	bs	Swift
2014-09-05	2456905.758	13.959 0.070	uw2	Swift	2014-09-04	2456905.123	15.121 0.050	bs	Swift
2014-09-06	2456906.593	14.195 0.071	uw2	Swift	2014-09-05	2456905.756	15.093 0.049	bs	Swift
2014-09-07	2456907.750	14.415 0.071	uw2	Swift	2014-09-06	2456906.592	15.116 0.050	bs	Swift
2014-09-08	2456908.813	14.655 0.083	uw2	Swift	2014-09-07	2456907.747	15.065 0.050	bs	Swift
2014-09-09	2456909.593	14.945 0.072	uw2	Swift	2014-09-08	2456908.812	15.037 0.050	bs	Swift
2014-09-12	2456913.412	15.553 0.073	uw2	Swift	2014-09-09	2456909.591	15.108 0.049	bs	Swift
2014-09-16	2456916.775	16.303 0.074	uw2	Swift	2014-09-12	2456913.411	15.080 0.048	bs	Swift
2014-09-20	2456921.276	17.736 0.081	uw2	Swift	2014-09-16	2456916.773	15.213 0.048	bs	Swift
2014-09-24	2456925.209	18.302 0.089	uw2	Swift	2014-09-20	2456921.273	15.307 0.048	bs	Swift
2014-09-28	2456929.101	18.767 0.087	uw2	Swift	2014-09-24	2456925.206	$15.392\ 0.052$	bs	Swift
2014-10-04	2456934.731	$19.360\ 0.184$	uw2	Swift	2014-09-28	2456929.099	$15.507 \ 0.050$	bs	Swift
2014-10-11	2456941.772	$21.080\ 0.581$	uw2	Swift	2014-10-04	2456934.729	$15.680\ 0.048$	bs	Swift
2014-10-19	2456950.406	$20.202\ 0.385$	uw2	Swift	2014-10-11	2456941.769	$15.869\ 0.048$	bs	Swift
2014-10-22	2456953.204	$19.483 \ 0.341$	uw2	Swift	2014-10-19	2456950.405	$16.073 \ 0.051$	bs	Swift
2014-10-24	2456955.096	$20.756\ 0.481$	uw2	Swift	2014-10-22	2456953.203	$16.046 \ 0.088$	bs	Swift
2014-09-03	2456903.502	$13.822\ 0.059$	um2	Swift	2014-10-24	2456955.094	$16.076 \ 0.050$	bs	Swift
2014-09-04	2456905.129	$13.808 \ 0.059$	um2	Swift	2014-09-03	2456903.627	$15.324\ 0.084$	B	1m0-10
2014-09-05	2456905.762	$13.826 \ 0.059$	um2	Swift	2014-09-03	2456903.630	$15.327 \ 0.072$	B	1m0-10
2014-09-06	2456906.597	$13.994 \ 0.059$	um2	Swift	2014-09-03	2456903.887	$15.297 \ 0.043$	B	1m0-09
2014-09-07	2456907.757	14.160 0.060	um2	Swift	2014-09-03	2456903.890	$15.297 \ 0.047$	B	1m0-09
2014-09-09	2456909.596	14.542 0.060	um2	Swift	2014-09-07	2456908.186	15.061 0.076	B	1m0-11
2014-09-12	2456913.313	15.259 0.062	um2	Swift	2014-09-07	2456908.189	15.061 0.066	B	1m0-11
2014-09-16	2456916.781	16.338 0.064	um2	Swift	2014-09-07	2456908.268	15.050 0.086	B	1m0-03
2014-09-20	2456921.282	17.988 0.072	um2	Swift	2014-09-07	2456908.270	15.067 0.084	B	1m0-03
2014-09-24	2456925.216	18.608 0.091	um2	Swift	2014-09-12	2456913.181	15.100 0.090	B	1m0-11
2014-09-28 2014-09-03	2456929.105 2456903.524	19.467 0.079	um2 $uw1$	$Swift \\ Swift$	2014-09-12 2014-09-14	2456913.183 2456915.255	15.136 0.079 15.134 0.078	$B \\ B$	1m0-11 1m0-03
2014-09-03	2456905.121	13.949 0.058 13.786 0.058	uw1 $uw1$	Swift	2014-09-14	2456915.257	15.135 0.079	B	1m0-03
2014-09-05	2456905.755	13.901 0.058	uw1	Swift	2014-09-14	2456917.177	15.116 0.067	B	1m0-03
2014-09-06	2456906.590	13.913 0.058	uw1	Swift	2014-09-16	2456917.180	15.207 0.067	$\stackrel{D}{B}$	1m0-11
2014-09-07	2456907.744	14.037 0.058	uw1	Swift	2014-09-18	2456919.184	15.176 0.087	\overline{B}	1m0-03
2014-09-08	2456908.809	14.119 0.058	uw1	Swift	2014-09-18	2456919.187	15.171 0.085	\overline{B}	1m0-03
2014-09-09	2456909.589	14.230 0.058	uw1	Swift	2014-09-20	2456921.041	15.282 0.073	B	1m0-03
2014-09-12	2456913.410	$14.774\ 0.059$	uw1	Swift	2014-09-20	2456921.043	$15.298 \ 0.074$	B	1m0-03
2014-09-16	2456916.771	$15.375 \ 0.060$	uw1	Swift	2014-09-23	2456924.037	15.279 0.069	B	1m0-11
2014-09-20	2456921.271	$16.423\ 0.066$	uw1	Swift	2014-09-23	2456924.039	$15.324\ 0.069$	B	1m0-11
2014-09-24	2456925.203	$16.908 \ 0.075$	uw1	Swift	2014-09-27	2456928.044	$15.426\ 0.079$	B	1m0-11
2014-09-28	2456929.097	$17.591 \ 0.076$	uw1	Swift	2014-09-29	2456929.893	$15.495 \ 0.082$	B	1m0-08
2014-10-04	2456934.727	$18.305 \ 0.073$	uw1	Swift	2014-10-02	2456933.018	$15.586 \ 0.063$	B	1m0-11
2014-10-11	2456941.767	$19.165 \ 0.173$	uw1	Swift	2014-10-02	2456933.020	$15.584 \ 0.066$	B	1m0-11
2014-10-19	2456950.404	$18.984 \ 0.177$	uw1	Swift	2014-10-03	2456934.212	$15.451 \ 0.138$	B	1m0-11
2014-10-22	2456953.202	19.581 0.160	uw1	Swift	2014-10-03	2456934.215	$15.616 \ 0.055$	$_{-}^{B}$	1m0-11
2014-10-24	2456955.092	19.368 0.274	uw1	Swift	2014-10-09	2456940.185	15.652 0.132	B	1m0-11
2014-09-04	2456905.122	13.882 0.053	us	Swift	2014-10-09	2456940.187	15.737 0.070	B	1m0-11
2014-09-05	2456905.756	13.894 0.053	us	Swift	2014-10-13	2456944.326	15.813 0.090	B	1m0-12
2014-09-06	2456906.591	13.920 0.053	us	Swift	2014-10-13	2456944.329	15.791 0.089	B	1m0-12
2014-09-07 2014-09-08	2456907.746	13.905 0.053	us	Swift	2014-10-17	2456947.972	15.892 0.061	B	1m0-11
2014-09-08	2456908.811 2456909.591	13.934 0.053 13.935 0.053	us	$Swift \\ Swift$	2014-10-17 2014-10-21	2456947.974 2456952.054	15.910 0.067 15.707 0.064	$B \\ B$	1m0-11 1m0-11
2014-09-09	2456913.411	14.131 0.052	us	Swift $Swift$	2014-10-21	2456952.057	15.748 0.071	B	1m0-11 1m0-11
2014-09-12	2456916.773	14.401 0.052	$us \ us$	$Swift \\ Swift$	2014-10-21	2456955.904	15.959 0.082	B	1m0-11 1m0-03
2014-09-10	2456921.273	14.831 0.054	us	Swift $Swift$	2014-10-25	2456955.905	15.952 0.082	B	1m0-03
2014-09-24	2456925.205	15.345 0.062	us	Swift $Swift$	2014-10-25	2456963.063	15.958 0.075	B	1m0-03 1m0-11
2014-09-28	2456929.099	15.715 0.063	us	Swift	2014-11-01	2456963.064	15.823 0.086	B	1m0-11 1m0-11
2014-10-04	2456934.729	15.961 0.060	us	Swift	2014-11-01	2456968.477	16.166 0.101	B	1m0-11
2014-10-11	2456941.768	16.330 0.062	us	Swift	2014-11-06	2456968.478	16.040 0.087	$\stackrel{D}{B}$	1m0-10
2014-10-19	2456950.404	16.584 0.071	us	Swift	2014-11-06	2456968.493	15.885 0.094	\overline{B}	1m0-10
2014-10-22	2456953.203	16.462 0.140	us	Swift	2014-11-13	2456975.130	$16.075 \ 0.071$	B	1m0-11
					1				

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14gm: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-13	2456975.132	16.201 0.080	В	1m0-11	2015-07-17	2457220.755	19.062 0.056	В	1m0-09
2014-11-18	2456980.400	$16.289 \ 0.066$	B	1m0-10	2015-07-17	2457220.760	$19.125 \ 0.054$	B	1m0-09
2014-11-18	2456980.401	$16.229\ 0.071$	B	1m0-10	2014-09-03	2456903.636	$15.233 \ 0.077$	g	1m0-10
2014-11-25	2456986.561	$16.074\ 0.070$	B	1m0-08	2014-09-03	2456903.639	$15.212\ 0.049$	g	1m0-10
2014-11-25	2456986.562	$16.448 \ 0.067$	B	1m0-08	2014-09-03	2456903.898	$15.260\ 0.041$	g	1m0-09
2014 - 11 - 27	2456989.389	$16.132\ 0.090$	B	1m0-13	2014-09-03	2456903.901	$15.218\ 0.051$	g	1m0-09
2014-11-27	2456989.390	$16.318 \ 0.078$	B	1m0-13	2014-09-07	2456908.194	$14.902 \ 0.070$	g	1m0-11
2014-11-28	2456990.275	$16.252 \ 0.079$	B	1m0-10	2014-09-07	2456908.197	$14.905 \ 0.070$	g	1m0-11
2014-11-28	2456990.276	$16.502 \ 0.059$	B	1m0-10	2014-09-07	2456908.276	$14.910 \ 0.081$	g	1m0-03
2014-12-04	2456996.322	$16.611 \ 0.075$	B	1m0-10	2014-09-07	2456908.279	$14.917 \ 0.079$	g	1m0-03
2014-12-04	2456996.323	16.704 0.076	B	1m0-10	2014-09-12	2456913.189	$14.955 \ 0.066$	g	1m0-11
2014-12-04	2456996.328	16.664 0.078	B	1m0-10	2014-09-12	2456913.192	14.945 0.045	g	1m0-11
2014-12-04	2456996.330	16.660 0.072	B	1m0-10	2014-09-14	2456915.263	14.909 0.084	g	1m0-03
2014-12-04	2456996.347	16.739 0.070	B	1m0-12	2014-09-14	2456915.266	14.928 0.087	g	1m0-03
2014-12-04	2456996.349	16.669 0.083	B	1m0-12	2014-09-16	2456917.186	14.980 0.056	g	1m0-11
2014-12-04 2014-12-04	2456996.366	16.759 0.068	$B \\ B$	1m0-10 1m0-10	2014-09-16	$2456917.189 \\ 2456919.193$	14.957 0.054 15.036 0.078	g	1m0-11 1m0-03
2014-12-04	$2456996.367 \\ 2457000.620$	$16.684 \ 0.058$ $16.907 \ 0.078$	B	1m0-10 1m0-05	2014-09-18 2014-09-18	2456919.195	15.010 0.065	g	1m0-03
2014-12-09	2457000.621	16.889 0.085	B	1m0-05 1m0-05	2014-09-18	2456921.049	15.036 0.093	g	1m0-03
2014-12-12	2457004.331	16.787 0.088	B	1m0-03	2014-09-20	2456921.052	14.971 0.079	$rac{g}{g}$	1m0-03
2014-12-12	2457004.332	16.850 0.078	B	1m0-13	2014-09-23	2456924.045	15.024 0.047	g	1m0-05
2014-12-16	2457008.044	17.197 0.078	B	1m0-11	2014-09-23	2456924.048	15.026 0.067	g	1m0-11
2014-12-16	2457008.045	17.208 0.087	B	1m0-11	2014-09-27	2456928.053	15.113 0.049	g	1m0-11
2014-12-20	2457011.978	17.445 0.066	\overline{B}	1m0-11	2014-09-27	2456928.055	15.103 0.051	g	1m0-11
2014-12-20	2457011.980	17.561 0.068	\overline{B}	1m0-11	2014-09-29	2456929.902	15.134 0.051	g	1m0-08
2014-12-24	2457015.924	17.795 0.087	B	1m0-11	2014-09-29	2456929.904	15.146 0.050	g	1m0-08
2014-12-24	2457015.926	17.771 0.089	B	1m0-11	2014-10-02	2456933.026	$15.215 \ 0.056$	g	1m0-11
2014-12-30	2457021.926	$18.168 \ 0.107$	B	1m0-03	2014-10-02	2456933.029	$15.197 \ 0.055$	g	1m0-11
2014-12-30	2457021.927	$18.114\ 0.104$	B	1m0-03	2014-10-03	2456934.224	$15.270\ 0.053$	g	1m0-11
2015-01-02	2457024.974	$17.914\ 0.153$	B	1m0-03	2014-10-09	2456940.193	$15.209\ 0.117$	g	1m0-11
2015-01-02	2457024.976	$17.918 \ 0.226$	B	1m0-03	2014-10-09	2456940.196	$15.252\ 0.078$	g	1m0-11
2015-01-03	2457026.292	$18.096 \ 0.080$	B	1m0-10	2014-10-13	2456944.335	$15.395 \ 0.064$	g	1m0-12
2015-01-03	2457026.295	$18.079 \ 0.090$	B	1m0-10	2014-10-17	2456947.980	$15.337 \ 0.057$	g	1m0-11
2015-01-07	2457030.292	$18.244 \ 0.075$	B	1m0-12	2014-10-17	2456947.983	$15.351 \ 0.058$	g	1m0-11
2015-01-07	2457030.295	18.310 0.069	B	1m0-12	2014-10-21	2456952.063	$15.389 \ 0.037$	g	1m0-11
2015-01-08	2457030.940	18.343 0.073	B	1m0-11	2014-10-21	2456952.065	$15.371 \ 0.042$	g	1m0-11
2015-01-08	2457030.943	18.319 0.075	B	1m0-11	2014-10-25	2456955.909	15.446 0.069	g	1m0-03
2015-01-09	2457032.309	18.322 0.068	B	1m0-12	2014-10-25	2456955.910	15.444 0.068	g	1m0-03
2015-01-09	2457032.312	18.378 0.068	B	1m0-12	2014-11-01	2456963.067	15.512 0.075	g	1m0-11
2015-01-10	2457032.558	18.279 0.083	B	1m0-05	2014-11-01	2456963.069	15.483 0.058	g	1m0-11
2015-01-10	2457032.561	18.249 0.069	B	1m0-05	2014-11-06	2456968.483	15.596 0.055	g	1m0-10
2015-01-11	2457034.297	18.364 0.063	$B \\ B$	1m0-12	2014-11-06	2456968.485	15.489 0.069	g	1m0-10
2015-01-14	2457036.568	18.263 0.072	_	1m0-05 1m0-05	2014-11-06	2456968.496	15.512 0.062	g	1m0-10
2015-01-14 2015-01-14	2457036.571 2457036.957	18.351 0.070 18.027 0.110	B	1m0-05 1m0-11	2014-11-06 2014-11-13	2456968.498 2456975.135	15.536 0.057 15.532 0.081	g	1m0-10 1m0-11
2015-01-14	2457030.957	18.122 0.089	B	1m0-11 1m0-12	2014-11-13	2456980.404	15.630 0.051	g	1m0-11 1m0-10
2015-01-16	2457039.291	18.252 0.103	B	1m0-12 1m0-12	2014-11-18	2456980.406	15.621 0.058	$\frac{g}{a}$	1m0-10 1m0-10
2015-01-19	2457042.283	18.038 0.087	B	1m0-12	2014-11-15	2456986.566	15.762 0.062	$rac{g}{g}$	1m0-10
2015-01-19	2457042.286	18.208 0.091	B	1m0-10	2014-11-25	2456986.567	15.721 0.043	g	1m0-08
2015-01-22	2457045.285	18.252 0.081	\overline{B}	1m0-10	2014-11-27	2456989.394	15.694 0.068	g	1m0-13
2015-01-22	2457045.288	18.269 0.075	\overline{B}	1m0-10	2014-11-27	2456989.395	15.648 0.049	g	1m0-13
2015-01-28	2457050.583	18.315 0.099	\overline{B}	1m0-08	2014-11-28	2456990.280	15.774 0.046	g	1m0-10
2015-01-28	2457050.586	18.292 0.086	\overline{B}	1m0-08	2014-11-28	2456990.281	15.796 0.035	g	1m0-10
2015-01-29	2457051.578	$18.222\ 0.094$	B	1m0-08	2014-12-04	2456996.327	$15.963\ 0.046$	g	1m0-10
2015-01-29	2457051.581	$18.217\ 0.114$	B	1m0-08	2014-12-04	2456996.352	$15.740\ 0.068$	g	1m0-12
2015-02-11	2457065.270	$18.471\ 0.027$	B	1m0-12	2014-12-04	2456996.354	$16.009 \ 0.069$	g	1m0-12
2015-02-11	2457065.273	$18.485\ 0.031$	B	1m0-12	2014-12-04	2456996.371	$15.875\ 0.050$	g	1m0-10
2015-02-20	2457073.570	$18.454\ 0.117$	B	1m0-08	2014-12-04	2456996.372	$15.893\ 0.050$	g	1m0-10
2015-06-30	2457203.893	$19.042\ 0.055$	B	1m0-04	2014-12-09	2457000.625	$16.132\ 0.076$	g	1m0-05
2015-06-30	2457203.899	19.055 0.051	B	1m0-04	2014-12-09	2457000.626	16.117 0.066	g	1m0-05

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14gm: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-12-12	2457004.336	16.162 0.066	g	1m0-13	2014-08-29	2456899.470	< 17.300	V	Atel/CBAT
2014-12-12	2457004.337	16.167 0.048	g	1m0-13	2014-09-01	2456902.470	15.500 0.100	V	Atel/CBAT
2014-12-16	2457008.048	16.338 0.062	g	1m0-11	2014-09-03	2456903.632	15.279 0.095	\overline{V}	1m0-10
2014-12-20	2457011.983	16.507 0.064	g	1m0-11	2014-09-03	2456903.634	15.257 0.095	\overline{V}	1m0-10
2014-12-20	2457011.985	16.407 0.092	g	1m0-11	2014-09-03	2456903.893	15.259 0.050	V	1m0-09
2014-12-24	2457015.929	17.168 0.107	g	1m0-11	2014-09-03	2456903.895	15.260 0.048	V	1m0-09
2014-12-24	2457015.930	16.774 0.093	g	1m0-11	2014-09-07	2456908.191	14.857 0.085	V	1m0-11
2014-12-30	2457021.930	17.602 0.080	g	1m0-03	2014-09-07	2456908.193	14.839 0.085	V	1m0-11
2014-12-30	2457021.932	17.553 0.063	g	1m0-03	2014-09-07	2456908.273	14.875 0.085	V	1m0-03
2015-01-02	2457024.983	17.478 0.077	g	1m0-03	2014-09-07	2456908.274	14.846 0.085	V	1m0-03
2015-01-02	2457024.986	$17.441\ 0.087$	g	1m0-03	2014-09-12	2456913.186	$14.869 \ 0.102$	V	1m0-11
2015-01-03	2457026.302	$17.553\ 0.061$	g	1m0-10	2014-09-12	2456913.187	$14.876 \ 0.102$	V	1m0-11
2015-01-03	2457026.305	$17.371\ 0.059$	g	1m0-10	2014-09-14	2456915.260	$14.928\ 0.088$	V	1m0-03
2015-01-05	2457028.335	$17.718 \ 0.061$	g	1m0-12	2014-09-14	2456915.261	$14.917\ 0.088$	V	1m0-03
2015-01-05	2457028.338	$17.575 \ 0.063$	g	1m0-12	2014-09-16	2456917.183	$14.838 \ 0.075$	V	1m0-11
2015-01-07	2457030.301	$17.658 \ 0.091$	g	1m0-12	2014-09-16	2456917.184	$14.816\ 0.075$	V	1m0-11
2015-01-07	2457030.304	$17.549 \ 0.152$	g	1m0-12	2014-09-18	2456919.189	$14.904\ 0.097$	V	1m0-03
2015-01-08	2457030.950	$17.663 \ 0.064$	g	1m0-11	2014-09-18	2456919.191	$14.905 \ 0.097$	V	1m0-03
2015-01-08	2457030.953	$17.695 \ 0.066$	g	1m0-11	2014-09-20	2456921.046	$14.901 \ 0.083$	V	1m0-03
2015-01-09	2457032.331	$17.686 \ 0.075$	g	1m0-12	2014-09-20	2456921.048	$14.905 \ 0.083$	V	1m0-03
2015-01-10	2457032.567	$17.712\ 0.066$	g	1m0-05	2014-09-23	2456924.042	$14.841 \ 0.077$	V	1m0-11
2015-01-10	2457032.570	$17.766 \ 0.054$	g	1m0-05	2014-09-23	2456924.044	$14.834\ 0.077$	V	1m0-11
2015-01-11	2457034.303	$17.644 \ 0.059$	g	1m0-12	2014-09-27	2456928.050	$14.931 \ 0.088$	V	1m0-11
2015-01-11	2457034.306	$17.702 \ 0.057$	g	1m0-12	2014-09-27	2456928.051	$14.887 \ 0.088$	V	1m0-11
2015-01-14	2457036.577	$17.715 \ 0.080$	g	1m0-05	2014-09-29	2456929.899	$14.899 \ 0.092$	V	1m0-08
2015-01-14	2457036.580	$17.724\ 0.077$	g	1m0-05	2014-09-29	2456929.900	$14.915 \ 0.092$	V	1m0-08
2015-01-14	2457036.964	17.589 0.057	g	1m0-11	2014-10-02	2456933.023	14.919 0.071	V	1m0-11
2015-01-15	2457037.937	17.733 0.062	g	1m0-11	2014-10-02	2456933.024	14.933 0.071	V	1m0-11
2015-01-15	2457037.940	17.711 0.059	g	1m0-11	2014-10-03	2456934.219	14.988 0.061	V	1m0-11
2015-01-16	2457039.297	17.678 0.075	g	1m0-12	2014-10-09	2456940.190	14.798 0.143	V	1m0-11
2015-01-16	2457039.300	17.796 0.073	g	1m0-12	2014-10-09	2456940.192	14.932 0.143	V	1m0-11
2015-01-19	2457042.295	17.677 0.039	g	1m0-10	2014-10-13	2456944.332	15.024 0.101	V	1m0-12
2015-01-22	2457045.295	17.732 0.052	g	1m0-10	2014-10-13	2456944.333	14.951 0.101	$V \ V$	1m0-12 1m0-11
2015-01-22 2015-01-28	2457045.298	17.794 0.044	g	1m0-10	2014-10-17	2456947.977	14.964 0.068	V = V	1m0-11 1m0-11
	2457050.593	17.727 0.071	g	1m0-08	2014-10-17	2456947.979	14.925 0.068	V = V	
2015-01-28 2015-01-29	$2457050.595 \\ 2457051.587$	$17.768 \ 0.072$ $17.763 \ 0.104$	g	1m0-08 1m0-08	2014-10-21 2014-10-21	$2456952.059 \\ 2456952.061$	$14.954 \ 0.070$ $14.970 \ 0.070$	$\stackrel{\scriptstyle V}{V}$	1 m 0 - 11 1 m 0 - 11
2015-01-29	2457051.587	17.703 0.104	g	1m0-08	2014-10-21	2456955.907	14.954 0.094	V = V	1m0-11 1m0-03
2015-01-29	2457051.590	17.766 0.079	$rac{g}{g}$	1m0-08	2014-10-25	2456955.908	14.974 0.094	$\stackrel{\scriptstyle V}{V}$	1m0-03
2015-02-11	2457064.579	17.697 0.072	g	1m0-08	2014-10-20	2456963.065	15.057 0.082	$\stackrel{r}{V}$	1m0-05
2015-06-30	2457203.913	18.699 0.093	g	1m0-03	2014-11-01	2456963.066	15.099 0.081	$\stackrel{V}{V}$	1m0-11 1m0-11
2015-06-30	2457203.918	18.762 0.086	g	1m0-04 1m0-04	2014-11-01	2456968.481	15.103 0.112	$\stackrel{r}{V}$	1m0-11
2015-07-17	2457220.760	18.730 0.054	g	1m0-04	2014-11-06	2456968.482	14.907 0.113	V	1m0-10
2015-07-17	2457220.765	18.672 0.059	g	1m0-04	2014-11-06	2456968.495	15.087 0.112	$\stackrel{\cdot}{V}$	1m0-10
2014-09-03	2456903.531	15.488 0.063	vs	Swift	2014-11-13	2456975.133	14.889 0.082	V	1m0-11
2014-09-04	2456905.126	$15.169 \ 0.057$	vs	Swift	2014-11-13	2456975.134	14.901 0.082	V	1m0-11
2014-09-05	2456905.760	$15.146\ 0.056$	vs	Swift	2014-11-18	2456980.403	15.149 0.074	V	1m0-10
2014-09-06	2456906.595	15.079 0.055	vs	Swift	2014-11-18	2456980.403	$15.123\ 0.074$	V	1m0-10
2014-09-07	2456907.753	$15.065 \ 0.056$	vs	Swift	2014-11-25	2456986.564	$15.231\ 0.074$	V	1m0-08
2014-09-09	2456909.595	$15.020\ 0.053$	vs	Swift	2014-11-25	2456986.565	$15.213\ 0.074$	V	1m0-08
2014-09-12	2456913.413	$15.025 \ 0.052$	vs	Swift	2014-11-27	2456989.392	$15.123\ 0.098$	V	1m0-13
2014-09-16	2456916.778	$15.061\ 0.049$	vs	Swift	2014-11-27	2456989.393	$15.122\ 0.098$	V	1m0-13
2014-09-20	2456921.278	$15.015 \ 0.050$	vs	Swift	2014-11-28	2456990.278	$15.270\ 0.082$	V	1m0-10
2014-09-24	2456925.212	$14.990\ 0.055$	vs	Swift	2014-11-28	2456990.279	$15.267 \ 0.082$	V	1m0-10
2014-09-28	2456929.103	$15.022\ 0.051$	vs	Swift	2014-12-04	2456996.325	$15.407\ 0.081$	V	1m0-10
2014-10-04	2456934.666	$15.012\ 0.066$	vs	Swift	2014-12-04	2456996.326	$15.389\ 0.081$	V	1m0-10
2014-10-11	2456941.773	$15.155 \ 0.046$	vs	Swift	2014-12-04	2456996.331	$15.399\ 0.081$	V	1m0-10
2014-10-19	2456950.337	15.181 0.053	vs	Swift	2014-12-04	2456996.332	15.447 0.081	V	1m0-10
2014-10-22	2456953.205	15.136 0.092	vs	Swift	2014-12-04	2456996.350	15.481 0.082	V	1m0-12
2014-10-24	2456955.099	15.152 0.046	vs	Swift	2014-12-04	2456996.351	15.425 0.082	V	1m0-12

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14gm: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-12-04	2456996.370	15.322 0.082	V	1m0-10	2014-09-12	2456913.194	14.767 0.028	r	1m0-11
2014-12-09	2457000.623	15.577 0.086	$\stackrel{\cdot}{V}$	1m0-05	2014-09-12	2456913.196	14.777 0.033	$\overset{\cdot}{r}$	1m0-11
2014-12-09	2457000.623	15.559 0.086	$\stackrel{\cdot}{V}$	1m0-05	2014-09-14	2456915.268	14.735 0.069	$\overset{\cdot}{r}$	1m0-03
2014-12-12	2457004.333	15.631 0.094	$\stackrel{\cdot}{V}$	1m0-13	2014-09-14	2456915.270	14.728 0.069	$\overset{\cdot}{r}$	1m0-03
2014-12-12	2457004.334	15.616 0.094	V	1m0-13	2014-09-16	2456917.191	14.652 0.040	r	1m0-11
2014-12-16	2457008.046	15.932 0.082	$\stackrel{\cdot}{V}$	1m0-11	2014-09-16	2456917.193	14.703 0.037	$\overset{\cdot}{r}$	1m0-11
2014-12-16	2457008.047	15.667 0.089	V	1m0-11	2014-09-18	2456919.198	14.788 0.065	r	1m0-03
2014-12-20	2457011.981	16.195 0.065	V	1m0-11	2014-09-18	2456919.199	14.789 0.066	r	1m0-03
2014-12-20	2457011.982	16.266 0.065	V	1m0-11	2014-09-20	2456921.055	14.694 0.064	r	1m0-03
2014-12-24	2457015.927	16.331 0.127	V	1m0-11	2014-09-20	2456921.056	14.709 0.064	r	1m0-03
2014-12-24	2457015.928	16.532 0.078	V	1m0-11	2014-09-23	2456924.051	14.704 0.053	r	1m0-11
2014-12-30	2457021.929	17.018 0.094	V	1m0-03	2014-09-23	2456924.052	$14.677 \ 0.054$	r	1m0-11
2014-12-30	2457021.929	17.005 0.095	V	1m0-03	2014-09-27	2456928.058	$14.712\ 0.038$	r	1m0-11
2015-01-02	2457024.980	$17.014\ 0.152$	V	1m0-03	2014-09-29	2456929.907	$14.707 \ 0.039$	r	1m0-08
2015-01-02	2457024.981	$16.909 \ 0.137$	V	1m0-03	2014-09-29	2456929.909	$14.690 \ 0.032$	r	1m0-08
2015-01-03	2457026.299	$16.825 \ 0.086$	V	1m0-10	2014-10-02	2456933.031	$14.758 \ 0.040$	r	1m0-11
2015-01-03	2457026.300	$17.025 \ 0.084$	V	1m0-10	2014-10-02	2456933.033	$14.758 \ 0.036$	r	1m0-11
2015-01-05	2457028.332	$17.109 \ 0.148$	V	1m0-12	2014-10-03	2456934.227	$14.770\ 0.043$	r	1m0-11
2015-01-07	2457030.298	$17.124\ 0.079$	V	1m0-12	2014-10-03	2456934.228	$14.799 \ 0.200$	r	1m0-11
2015-01-07	2457030.299	$17.166 \ 0.079$	V	1m0-12	2014-10-09	2456940.200	$14.723\ 0.037$	r	1m0-11
2015-01-08	2457030.946	$17.035 \ 0.078$	V	1m0-11	2014-10-13	2456944.340	$14.818 \ 0.054$	r	1m0-12
2015-01-08	2457030.948	$17.114\ 0.079$	V	1m0-11	2014-10-13	2456944.342	$14.813\ 0.028$	r	1m0-12
2015-01-09	2457032.325	$17.331\ 0.077$	V	1m0-12	2014-10-17	2456947.986	$14.753 \ 0.039$	r	1m0-11
2015-01-09	2457032.326	$17.184\ 0.069$	V	1m0-12	2014-10-17	2456947.987	$14.778 \ 0.035$	r	1m0-11
2015-01-10	2457032.564	$17.140\ 0.088$	V	1m0-05	2014-10-21	2456952.068	$14.731\ 0.030$	r	1m0-11
2015-01-10	2457032.565	$17.111\ 0.088$	V	1m0-05	2014-10-21	2456952.069	$14.777 \ 0.035$	r	1m0-11
2015-01-11	2457034.300	$17.097 \ 0.080$	V	1m0-12	2014-10-25	2456955.912	$14.773 \ 0.051$	r	1m0-03
2015-01-11	2457034.302	$17.264\ 0.060$	V	1m0-12	2014-10-25	2456955.913	$14.752 \ 0.054$	r	1m0-03
2015-01-14	2457036.574	$17.312\ 0.070$	V	1m0-05	2014-11-01	2456963.070	$14.733 \ 0.047$	r	1m0-11
2015-01-14	2457036.576	$17.248 \ 0.069$	V	1m0-05	2014-11-01	2456963.071	$14.813\ 0.048$	r	1m0-11
2015-01-14	2457036.961	17.079 0.124	V	1m0-11	2014-11-06	2456968.486	14.767 0.043	r	1m0-10
2015-01-14	2457036.962	17.008 0.124	V	1m0-11	2014-11-06	2456968.487	14.796 0.038	r	1m0-10
2015-01-16	2457039.294	17.153 0.089	V	1m0-12	2014-11-06	2456968.499	14.744 0.042	r	1m0-10
2015-01-16	2457039.296	17.150 0.088	V	1m0-12	2014-11-07	2456968.500	14.785 0.051	r	1m0-10
2015-01-19	2457042.290	17.221 0.080	V	1m0-10	2014-11-13	2456975.138	14.683 0.061	r	1m0-11
2015-01-22	2457045.291	17.219 0.084	V	1m0-10	2014-11-13	2456975.139	14.751 0.051	r	1m0-11
2015-01-22	2457045.293	17.161 0.085	V	1m0-10	2014-11-18	2456980.407	14.700 0.042	r	1m0-10
2015-01-27	2457049.532	17.362 0.103	$V \ V$	1m0-05	2014-11-18	2456980.408	14.861 0.040	r	1m0-10
2015-01-27 2015-01-28	2457049.534	17.307 0.107	V V	1m0-05 1m0-08	2014-11-25	2456986.568	14.951 0.044 14.955 0.035	r	1m0-08
2015-01-28	2457050.589	17.186 0.098 17.311 0.096	V V	1m0-08	2014-11-25	2456986.569		r	1m0-08 1m0-13
2015-01-28	2457050.591 2457051.584	17.311 0.090	V V	1m0-08	2014-11-27 2014-11-27	$2456989.397 \\ 2456989.398$	14.884 0.044 14.828 0.032	$r \\ r$	1m0-13 1m0-13
2015-01-29	2457051.584	17.378 0.087	V = V	1m0-08	2014-11-27	2456990.283	15.008 0.033	r	1m0-13 1m0-10
2015-01-29	2457051.383	17.483 0.013	$\stackrel{\scriptstyle V}{V}$	1m0-08 1m0-12	2014-11-28	2456990.284	15.013 0.037	r = r	1m0-10 1m0-10
2015-02-11	2457065.280	17.471 0.013	$\stackrel{r}{V}$	1m0-12	2014-11-20	2456996.355	15.133 0.038	$\overset{\prime}{r}$	1m0-10 1m0-12
2015-02-11	2457071.576	17.304 0.109	$\stackrel{\backprime}{V}$	1m0-08	2014-12-04	2456996.356	15.095 0.032	$\overset{\prime}{r}$	1m0-12
2015-02-18	2457071.578	17.330 0.108	$\stackrel{\cdot}{V}$	1m0-08	2014-12-04	2456996.374	15.118 0.041	r	1m0-10
2015-02-20	2457073.577	17.375 0.089	$\stackrel{\cdot}{V}$	1m0-08	2014-12-04	2456996.374	15.072 0.035	$\overset{\prime}{r}$	1m0-10
2015-06-30	2457203.904	18.643 0.057	$\stackrel{\cdot}{V}$	1m0-04	2014-12-09	2457000.627	15.180 0.039	$\overset{\prime}{r}$	1m0-05
2015-06-30	2457203.908	18.534 0.058	V	1m0-04	2014-12-09	2457000.628	15.179 0.045	r	1m0-05
2015-07-17	2457220.765	18.555 0.059	$\stackrel{\cdot}{V}$	1m0-09	2014-12-12	2457004.339	15.256 0.031	$\overset{\prime}{r}$	1m0-13
2015-07-17	2457220.769	18.544 0.060	$\stackrel{\cdot}{V}$	1m0-09	2014-12-12	2457004.340	15.246 0.042	$\overset{\cdot}{r}$	1m0-13
2014-09-03	2456903.641	15.361 0.050	r	1m0-10	2014-12-16	2457008.051	15.436 0.056	r	1m0-11
2014-09-03	2456903.643	15.354 0.041	r	1m0-10	2014-12-16	2457008.052	15.463 0.036	r	1m0-11
2014-09-03	2456903.905	15.351 0.036	r	1m0-09	2014-12-20	2457011.986	15.731 0.039	r	1m0-11
2014-09-03	2456903.908	15.344 0.036	r	1m0-09	2014-12-20	2457011.987	15.745 0.035	r	1m0-11
2014-09-07	2456908.200	14.805 0.031	r	1m0-11	2014-12-24	2457015.932	16.050 0.041	r	1m0-11
2014-09-07	2456908.201	$14.788\ 0.031$	r	1m0-11	2014-12-24	2457015.933	$16.039\ 0.050$	r	1m0-11
2014-09-07	2456908.281	$14.812\ 0.057$	r	1m0-03	2014-12-30	2457021.933	$16.465 \ 0.046$	r	1m0-03
2014-09-07	2456908.283	$14.793\ 0.059$	r	1m0-03	2014-12-30	2457021.934	$16.412\ 0.047$	r	1m0-03

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14gm: Photometric Data

Date JD $mag^{(a)}$ Filter $telescope^{(b)}$ Date JD $mag^{(a)}$		$telescope^{(b)}$
2015-01-02 2457024.989 16.496 0.076 r 1m0-03 2014-09-29 2456929.912 14.747 0.040	i	1m0-08
$2015-01-02 2457024.991 16.474 \ 0.059 \qquad r \qquad 1 \text{m0}-03 \qquad 2014-10-02 2456933.035 14.768 \ 0.040$	i	1m0-11
$2015-01-03 2457026.308 16.487 \ 0.041 \qquad r \qquad 1 \text{m0-10} \qquad 2014-10-02 2456933.036 14.767 \ 0.040$	i	1m0-11
$2015-01-03 2457026.310 16.363 \ 0.034 r \qquad 1\text{m0}-10 \qquad 2014-10-03 2456934.230 14.764 \ 0.043$	i	1m0-11
$2015-01-05 2457028.341 16.445 \ 0.046 r \qquad 1 \text{m} 0-12 \qquad 2014-10-03 2456934.232 14.786 \ 0.043$	i	1m0-11
$ 2015-01-05 2457028.343 16.518 \ 0.038 r \qquad 1 \text{m0}-12 \qquad 2014-10-09 2456940.202 14.744 \ 0.038 $	i	1m0-11
$ 2015-01-08 2457030.956 16.515 \ 0.053 \qquad r \qquad 1 \text{m0-11} \qquad 2014-10-09 2456940.204 14.711 \ 0.038 $	i	1m0-11
$2015-01-08 2457030.957 16.521 \ 0.056 \qquad r \qquad 1 \text{m0-11} \qquad 2014-10-13 2456944.343 14.751 \ 0.055$	i	1m0-12
$2015-01-10 2457032.573 16.591 \ 0.033 r \qquad 1 \text{m0-05} \qquad 2014-10-13 2456944.345 14.793 \ 0.055$	i	1m0-12
$ 2015-01-10 2457032.575 16.541 \ 0.037 r 1\text{m0-05} 2014-10-17 2456947.989 14.769 \ 0.040 $	i	1m0-11
2015-01-11 2457034.310 16.379 0.037 r 1m0-12 2014-10-17 2456947.990 14.766 0.040	i	1m0-11
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	i	1m0-11
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	i	1m0-11
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	i	1m0-03
2015-01-14 2457036.970 16.596 0.056 r 1m0-11 2014-10-25 2456955.914 14.719 0.052	i	1m0-03
2015-01-14 2457036.972 16.558 0.070 r 1m0-11 2014-11-01 2456963.072 14.675 0.046	i	1m0-11
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$i \ i$	1m0-11 1m0-10
2013-01-13 2437037.343 10.013 0.041 7 1mo-11 2014-11-00 2430308.488 14.787 0.043 2015-01-16 2457039.303 16.634 0.049 r 1mo-12 2014-11-06 2456968.489 14.729 0.044	$i \\ i$	1m0-10 1m0-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$i \\ i$	1m0-10 1m0-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$i \ i$	1m0-10 1m0-10
2015-01-19 2457042.300 16.534 0.040 r 1m0-10 2014-11-13 2456975.141 14.828 0.055	$i \ i$	1m0-10 1m0-11
2015-01-22 2457045.301 16.560 0.049 r 1m0-10 2014-11-18 2456980.409 14.873 0.045	i	1m0-11
2015-01-22 2457045.303 16.557 0.059 r 1m0-10 2014-11-18 2456980.410 14.786 0.039	i	1m0-10
2015-01-28 2457050.599 16.642 0.043 r 1m0-08 2014-11-25 2456986.570 14.851 0.045	i	1m0-08
2015-01-28 2457050.600 16.665 0.044 r 1m0-08 2014-11-25 2456986.571 14.848 0.044	i	1m0-08
2015-01-29 2457051.593 16.559 0.043 r 1m0-08 2014-11-27 2456989.399 14.812 0.046	i	1m0-13
2015-01-29 2457051.595 16.580 0.043 r 1m0-08 2014-11-28 2456990.285 14.934 0.034	i	1m0-10
2015-02-11 2457064.583 16.702 0.057 r 1m0-08 2014-11-28 2456990.285 14.923 0.035	i	1m0-10
$2015-02-11 2457064.586 16.720 \ 0.051 r 1\text{m}0-08 2014-12-04 2456996.357 14.957 \ 0.040$	i	1m0-12
2015-06-04 2457177.919 17.806 0.059 r 1 m 0-05 2014-12-04 2456996.376 14.889 0.039	i	1m0-10
2015-06-04 2457177.922 17.721 0.049 r 1m0-05 2014-12-09 2457000.629 15.052 0.041	i	1m0-05
$ 2015-06-22 2457196.287 17.968 \; 0.072 r 1\text{m0-11} 2014-12-09 2457000.630 15.082 \; 0.041 $	i	1m0-05
$ 2015-06-22 2457196.291 17.991 \ 0.766 r \qquad 1 m0-11 \ 2014-12-12 2457004.341 15.118 \ 0.033 $	i	1m0-13
$ 2015-06-30 2457203.923 17.902 \ 0.055 r 1\text{m0-04} 2014-12-12 2457004.342 15.096 \ 0.033 $	i	1m0-13
$ 2015-06-30 2457203.927 17.900 \ 0.054 r 1\text{m0-04} 2014-12-16 2457008.053 15.415 \ 0.057 $	i	1m0-11
2015-07-17 2457220.771 18.067 0.037 r 1m0-04 2014-12-16 2457008.054 15.284 0.060	i	1m0-11
$2015-07-17 2457220.775 18.101 \ 0.036 r \qquad 1 \text{m0-04} \qquad 2014-12-20 2457011.988 15.563 \ 0.039$	i	1m0-11
$ 2014-09-03 2456903.645 15.499 \ 0.050 \qquad i \qquad 1\text{m0-10} \qquad 2014-12-20 2457011.989 15.530 \ 0.042 $	i	1m0-11
$ 2014-09-03 2456903.646 15.479 \ 0.051 i 1\text{m0-10} 2014-12-24 2457015.934 15.729 \ 0.048 $	i	1m0-11
2014-09-03 2456903.910 15.429 0.034 <i>i</i> 1m0-09 2014-12-24 2457015.935 15.922 0.043	i	1m0-11
2014-09-03 2456903.912 15.430 0.034 <i>i</i> 1m0-09 2014-12-30 2457021.935 16.330 0.049	i	1m0-03
2014-09-07 2456908.203 14.873 0.031 <i>i</i> 1m0-11 2014-12-30 2457021.936 16.385 0.050	i	1m0-03
2014-09-07 2456908.284 14.857 0.031 i 1m0-03 2015-01-02 2457024.992 16.416 0.065	i	1m0-03
2014-09-07 2456908.286 14.896 0.031 <i>i</i> 1m0-03 2015-01-02 2457024.994 16.356 0.059	i	1m0-03
2014-09-12 2456913.198 14.919 0.028 <i>i</i> 1m0-11 2015-01-03 2457026.311 16.419 0.046 2014-09-12 2456913.199 14.868 0.028 <i>i</i> 1m0-11 2015-01-05 2457028.345 16.408 0.046	i	1m0-10
2014-09-12 2456913.199 14.868 0.028 <i>i</i> 1m0-11 2015-01-05 2457028.345 16.408 0.046 2014-09-14 2456915.272 14.868 0.070 <i>i</i> 1m0-03 2015-01-05 2457028.346 16.527 0.047	$i \ i$	1 m 0 - 12 1 m 0 - 12
2014-09-14 2450915.272 14.808 0.070 <i>i</i> 1m0-03 2015-01-03 2457028.340 10.327 0.047 2014-09-14 2456915.273 14.917 0.069 <i>i</i> 1m0-03 2015-01-08 2457030.959 16.476 0.059	$i \ i$	1m0-12 1m0-11
2014-09-16 2456917.194 14.846 0.040 <i>i</i> 1m0-11 2015-01-08 2457030.961 16.518 0.055	$i \ i$	1m0-11 1m0-11
2014-09-16 2456917.196 14.819 0.040 <i>i</i> 1m0-11 2015-01-10 2457032.577 16.481 0.034	$i \ i$	1m0-11 1m0-05
2014-09-18 2456919.201 14.862 0.066 <i>i</i> 1m0-03 2015-01-10 2457032.578 16.538 0.035	$i \ i$	1m0-05
2014-09-18 2456919.203 14.847 0.066 <i>i</i> 1m0-03 2015-01-11 2457034.313 16.347 0.044	i	1m0-00
2014-09-20 2456921.058 14.860 0.064 <i>i</i> 1m0-03 2015-01-11 2457034.315 16.531 0.038	i	1m0-12
2014-09-20 2456921.059 14.897 0.064 <i>i</i> 1m0-03 2015-01-14 2457036.587 16.614 0.062	i	1m0-05
2014-09-23 2456924.054 14.759 0.054 <i>i</i> 1m0-11 2015-01-15 2457037.946 16.585 0.050	i	1m0-11
2014-09-23 2456924.055 14.716 0.054 <i>i</i> 1m0-11 2015-01-15 2457037.948 16.622 0.046	i	1m0-11
$2014-09-27 2456928.061 14.801 \ 0.038 \qquad i \qquad 1\text{m0-11} \qquad 2015-01-16 2457039.307 16.597 \ 0.052$	i	1m0-12
2014-09-27 2456928.063 14.770 0.038 <i>i</i> 1m0-11 2015-01-16 2457039.308 16.559 0.051	i	1m0-12
2014-09-29 2456929.910 14.750 0.040 <i>i</i> 1m0-08 2015-01-19 2457042.302 16.496 0.057	i	1m0-10

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14gm: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2015-01-19	2457042.303	16.555 0.056	i	1m0-10	2015-06-04	2457177.924	18.017 0.078	i	1m0-05
2015-01-22	2457045.304	$16.562 \ 0.051$	i	1m0-10	2015-06-04	2457177.928	$18.269 \ 0.112$	i	1m0-05
2015-01-22	2457045.306	$16.659 \ 0.052$	i	1m0-10	2015-06-22	2457196.295	$18.023\ 0.081$	i	1m0-11
2015-01-28	2457050.602	$16.652 \ 0.052$	i	1m0-08	2015-06-22	2457196.302	$18.053 \ 0.081$	i	1m0-11
2015-01-29	2457051.597	$16.768 \ 0.059$	i	1m0-08	2015-06-30	2457203.931	$18.237 \ 0.061$	i	1m0-04
2015-01-29	2457051.598	$16.666 \ 0.061$	i	1m0-08	2015-06-30	2457203.935	$18.150 \ 0.062$	i	1m0-04
2015-02-11	2457064.588	$16.794\ 0.059$	i	1m0-08	2015-07-17	2457220.779	$18.049 \ 0.041$	i	1m0-04
2015-02-11	2457064.591	$16.812\ 0.058$	i	1m0-08	2015-07-17	2457220.783	$18.085 \ 0.041$	i	1m0-04

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

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Table D1: SN 2014cy: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-09-03	2456903.893	16.018 0.025	B	1m0-08	2014-12-27	2457018.555	19.382 0.185	B	1m0-08
2014-09-03	2456903.894	16.019 0.025	B	1m0-08	2014-12-27	2457013.535	19.934 0.179	B	1m0-08
2014-09-04	2456905.433	15.972 0.026	B	1m0-08	2014-12-30	2457021.631	20.543 0.198	B	1m0-08
2014-09-04	2456905.434	16.000 0.026	B	1m0-10 1m0-10	2015-01-07	2457029.538	20.718 0.519	B	1m0-05
2014-09-06	2456907.353	16.111 0.028	B	1m0-10	2015-01-18	2457040.588	20.338 0.518	B	1m0-08
2014-09-06	2456907.354	16.073 0.027	$\stackrel{D}{B}$	1m0-10	2015-01-19	2457041.594	20.398 0.277	B	1m0-08
2014-09-11	2456912.077	16.177 0.025	B	1m0-11	2015-01-19	2457041.599	20.534 0.404	B	1m0-08
2014-09-11	2456912.078	16.130 0.025	$\stackrel{D}{B}$	1m0-11	2015-02-11	2457064.570	20.111 0.320	B	1m0-08
2014-09-13	2456914.197	16.239 0.025	\overline{B}	1m0-03	2014-09-03	2456903.897	16.164 0.021	g	1m0-08
2014-09-13	2456914.198	16.247 0.025	\overline{B}	1m0-03	2014-09-03	2456903.897	16.195 0.027	g	1m0-08
2014-09-17	2456918.061	16.357 0.025	\overline{B}	1m0-11	2014-09-04	2456905.436	16.080 0.024	g	1m0-10
2014-09-17	2456918.062	16.360 0.025	\overline{B}	1m0-11	2014-09-04	2456905.437	16.102 0.025	g	1m0-10
2014-09-20	2456920.915	16.591 0.026	B	1m0-08	2014-09-06	2456907.356	16.172 0.040	g	1m0-10
2014-09-20	2456920.916	16.589 0.058	B	1m0-08	2014-09-06	2456907.357	16.291 0.047	g	1m0-10
2014-09-21	2456922.463	$16.574\ 0.029$	B	1m0-10	2014-09-08	2456909.436	16.369 0.053	g	1m0-12
2014-09-21	2456922.464	16.619 0.039	B	1m0-10	2014-09-08	2456909.436	16.305 0.042	g	1m0-12
2014-09-23	2456924.111	16.536 0.039	B	1m0-11	2014-09-11	2456912.080	$16.138 \ 0.013$	g	1m0-11
2014-09-23	2456924.112	16.621 0.043	B	1m0-11	2014-09-11	2456912.081	$16.146 \ 0.015$	g	1m0-11
2014-09-27	2456928.066	$16.721\ 0.055$	B	1m0-11	2014-09-13	2456914.200	16.216 0.031	g	1m0-03
2014-10-02	2456932.986	$17.178 \ 0.053$	B	1m0-11	2014-09-13	2456914.201	$16.205 \ 0.028$	g	1m0-03
2014-10-02	2456932.987	$17.130\ 0.052$	B	1m0-11	2014-09-17	2456918.064	$16.268 \ 0.018$	g	1m0-11
2014-10-09	2456940.454	$17.331\ 0.031$	B	1m0-12	2014-09-17	2456918.065	$16.323\ 0.021$	g	1m0-11
2014-10-09	2456940.455	$17.364\ 0.028$	B	1m0-12	2014-09-20	2456920.533	$16.350\ 0.021$	g	1m0-12
2014-10-09	2456940.483	$17.523\ 0.037$	B	1m0-12	2014-09-20	2456920.918	$16.460\ 0.032$	g	1m0-08
2014-10-09	2456940.484	$17.427\ 0.033$	B	1m0-12	2014-09-20	2456920.919	$16.415 \ 0.029$	g	1m0-08
2014-10-13	2456944.284	$17.655 \ 0.040$	B	1m0-12	2014-09-21	2456922.467	$16.419\ 0.017$	g	1m0-10
2014-10-15	2456945.620	$17.584\ 0.030$	B	1m0-08	2014-09-21	2456922.467	$16.405 \ 0.016$	g	1m0-10
2014-10-15	2456945.621	$17.672\ 0.119$	B	1m0-08	2014-09-23	2456924.114	$16.351 \ 0.020$	g	1m0-11
2014-10-22	2456953.317	$17.726\ 0.090$	B	1m0-12	2014-09-23	2456924.115	$16.348 \ 0.019$	g	1m0-11
2014-10-22	2456953.317	$17.684 \ 0.084$	B	1m0-12	2014-09-27	2456928.069	$16.443 \ 0.018$	g	1m0-11
2014-10-30	2456961.080	$17.781 \ 0.033$	B	1m0-03	2014-09-27	2456928.070	$16.511 \ 0.018$	g	1m0-11
2014-10-30	2456961.081	$17.817 \ 0.032$	B	1m0-03	2014-10-02	2456932.989	$16.727 \ 0.021$	g	1m0-11
2014-11-19	2456980.556	$18.237 \ 0.039$	B	1m0-05	2014-10-02	2456932.990	$16.721 \ 0.022$	g	1m0-11
2014-11-19	2456980.559	18.169 0.035	B	1m0-05	2014-10-09	2456940.458	17.022 0.065	g	1m0-12
2014-11-19	2456980.925	18.290 0.051	B	1m0-03	2014-10-09	2456940.459	17.051 0.065	g	1m0-12
2014-11-19	2456981.272	18.274 0.036	B	1m0-12	2014-10-09	2456940.487	17.139 0.076	g	1m0-12
2014-11-19	2456981.275	18.256 0.045	B	1m0-12	2014-10-09	2456940.487	17.188 0.063	g	1m0-12
2014-11-25	2456987.319	18.269 0.053	B	1m0-13	2014-10-13	2456944.287	17.033 0.049	g	1m0-12
2014-11-25	2456987.324	18.291 0.041	B	1m0-13	2014-10-13	2456944.288	17.006 0.029	g	1m0-12
2014-11-28	2456989.590	18.501 0.043	B	1 m 0 - 05	2014-10-15	2456945.624	16.943 0.013	g	1m0-08
2014-11-28	2456989.595	18.364 0.039	$B \\ B$	1m0-05	2014-10-15 2014-10-22	2456945.624	16.978 0.010	g	1m0-08
2014-11-29 2014-11-29	2456990.535 2456990.540	18.347 0.040 18.430 0.044	$\stackrel{B}{B}$	1m0-08 1m0-08	2014-10-22	2456953.320 2456953.321	17.124 0.037 17.181 0.037	g	1m0-12 1m0-12
2014-11-29	2456994.523	18.659 0.052	B	1m0-08 1m0-05	2014-10-22	2456961.083	17.181 0.037	g	1m0-12 1m0-03
2014-12-09	2457000.942	18.455 0.086	B	1m0-05 1m0-11	2014-10-30	2456968.908	17.299 0.058	g	1m0-03 1m0-11
2014-12-09	2457000.946	18.577 0.096	B	1m0-11	2014-11-07	2456968.908	17.192 0.015	g	1m0-11
2014-12-12	2457003.931	18.545 0.077	B	1m0-11	2014-11-07	2456972.684	17.172 0.063	$rac{g}{g}$	1m0-11
2014-12-12	2457003.936	18.659 0.073	B	1m0-11	2014-11-11	2456972.686	17.212 0.029		1m0-08
2014-12-14	2457006.280	18.869 0.103	$\stackrel{D}{B}$	1m0-11	2014-11-19	2456980.565	17.333 0.014	$rac{g}{g}$	1 m 0 - 05
2014-12-14	2457006.285	18.659 0.058	\overline{B}	1m0-12	2014-11-19	2456980.567	17.338 0.013	g	1m0-05
2014-12-15	2457006.921	18.900 0.074	\overline{B}	1m0-03	2014-11-19	2456980.936	17.392 0.013	g	1m0-03
2014-12-15	2457006.926	18.759 0.065	\overline{B}	1m0-03	2014-11-19	2456981.281	17.372 0.026	g	1m0-12
2014-12-16	2457007.671	18.879 0.060	\overline{B}	1m0-08	2014-11-25	2456987.334	17.458 0.018	g	1m0-13
2014-12-20	2457011.642	18.968 0.078	\overline{B}	1m0-08	2014-11-25	2456987.339	17.450 0.017	g	1m0-13
2014-12-20	2457011.647	18.776 0.069	B	1m0-08	2014-11-28	2456989.605	17.596 0.050	g	1m0-05
2014-12-24	2457015.532	19.403 0.086	B	1m0-05	2014-11-28	2456989.610	$17.595 \ 0.047$	g	1m0-05
2014-12-24	2457015.537	19.605 0.119	B	1m0-05	2014-11-29	2456990.555	$17.522\ 0.015$	g	1m0-08
2014-12-25	2457016.533	$19.204\ 0.141$	B	1m0-05	2014-12-03	2456994.538	$17.593\ 0.014$	g	1m0-05
2014-12-25	2457016.537	19.175 0.089	B	1m0-05	2014-12-03	2456994.543	$17.570\ 0.015$	g	1m0-05
2014-12-27	2457018.550	20.120 0.421	B	1m0-08	2014-12-14	2457006.297	17.647 0.040	g	1m0-12

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2014cy: Photometric Data

				7.					
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-12-14	2457006.302	17.686 0.045	g	1m0-12	2014-11-29	2456990.547	16.747 0.037	V	1m0-08
2014-12-16	2457007.686	17.861 0.018	g	1m0-08	2014-12-03	2456994.533	$16.805 \ 0.025$	V	1m0-05
2014-12-16	2457007.690	18.048 0.058	g	1m0-08	2014-12-03	2456994.535	$16.828 \ 0.025$	V	1m0-05
2014-12-20	2457011.657	18.064 0.020	g	1m0-08	2014-12-12	2457003.941	17.007 0.024	V	1m0-11
2014-12-20	2457011.662	$18.128 \ 0.025$	g	1m0-08	2014-12-12	2457003.943	$16.976 \ 0.032$	V	1m0-11
2014-12-25	2457016.660	18.376 0.044	g	1m0-08	2014-12-15	2457006.931	$17.085 \ 0.025$	V	1m0-03
2014-12-30	2457021.648	18.731 0.093	g	1m0-08	2014-12-15	2457006.933	$17.055 \ 0.025$	V	1m0-03
2014-12-30	2457021.653	19.488 0.256	g	1m0-08	2014-12-16	2457007.680	17.073 0.025	V	1m0-08
2015-01-05	2457027.534	19.907 0.192	g	1m0-05	2014-12-16	2457007.683	17.133 0.025	V	1m0-08
2015-01-05	2457027.539	$20.249\ 0.195$	g	1m0-05	2014-12-20	2457011.652	$17.236\ 0.028$	V	1m0-08
2015-01-19	2457041.617	$21.651 \ 0.526$	g	1m0-08	2014-12-20	2457011.654	$17.256\ 0.031$	V	1m0-08
2015-01-21	2457043.609	$21.754\ 0.517$	g	1m0-08	2014-12-24	2457015.542	17.390 0.028	V	1m0-05
2015-01-28	2457050.557	21.326 0.186	g	1m0-08	2014-12-24	2457015.546	17.412 0.028	V	1 m 0 - 05
2014-09-03	2456903.895	$15.957 \ 0.052$	V	1m0-08	2014-12-25	2457016.542	17.473 0.030	V	1m0-05
2014-09-03	2456903.896	$15.906 \ 0.023$	V	1m0-08	2014-12-25	2457016.546	$17.462\ 0.028$	V	1m0-05
2014-09-04	2456905.435	15.918 0.041	V	1m0-10	2014-12-27	2457018.560	17.509 0.037	V	1m0-08
2014-09-04	2456905.435	$15.896 \ 0.037$	V	1m0-10	2014-12-30	2457021.639	18.669 0.279	V	1m0-08
2014-09-06	2456907.354	16.149 0.027	V	1m0-10	2015-01-20	2457042.571	21.069 0.432	V	1m0-08
2014-09-06	2456907.355	16.034 0.025	V	1m0-10	2015-01-21	2457043.597	20.050 0.193	V	1m0-08
2014-09-08	2456909.434	15.847 0.030	V	1m0-12	2015-02-03	2457056.590	19.614 0.524	V	1m0-08
2014-09-08	2456909.435	$15.828 \ 0.032$	V	1m0-12	2015-02-09	2457062.567	$20.677 \ 0.323$	V	1m0-08
2014-09-11	2456912.078	$15.975 \ 0.035$	V	1m0-11	2014-08-29	2456898.822	< 19.000	r	Atel/CBAT
2014-09-11	2456912.079	16.071 0.038	V	1m0-11	2014-08-31	2456900.822	15.800 0.100	r	Atel/CBAT
2014-09-13	2456914.199	15.887 0.023	V	1m0-03	2014-09-03	2456903.899	15.928 0.011	r	1m0-08
2014-09-13	2456914.199	15.947 0.022	V	1m0-03	2014-09-03	2456903.899	15.972 0.008	r	1m0-08
2014-09-17	2456918.063	15.922 0.023	V	1m0-11	2014-09-08	2456909.438	15.800 0.015	r	1m0-12
2014-09-17	2456918.064	15.944 0.023	V	1m0-11	2014-09-08	2456909.438	15.861 0.011	r	1m0-12
2014-09-20	2456920.917	16.168 0.067	V	1m0-08	2014-09-11	2456912.082	15.845 0.022	r	1m0-11
2014-09-20	2456920.917	16.010 0.056	V	1m0-08	2014-09-11	2456912.082	15.899 0.018	r	1m0-11
2014-09-21	2456922.465	16.050 0.027	V	1m0-10	2014-09-17	2456918.066	15.888 0.027	r	1m0-11
2014-09-21	2456922.466	16.052 0.027	V	1m0-10	2014-09-17	2456918.067	15.947 0.026	r	1m0-11
2014-09-23	2456924.113	15.994 0.032	V	1m0-11	2014-09-20	2456920.920	16.002 0.041	r	1m0-08
2014-09-23	2456924.113	16.037 0.026	V	1m0-11	2014-09-20	2456920.921	16.013 0.050	r	1m0-08
2014-09-27	2456928.068	16.044 0.035	V	1m0-11	2014-09-21	2456922.468	16.022 0.035	r	1m0-10
2014-09-27	2456928.068	16.153 0.082	V	1m0-11	2014-09-21	2456922.469	15.955 0.022	r	1m0-10
2014-10-02	2456932.988	16.216 0.024	V	1m0-11	2014-09-23	2456924.116	15.915 0.030	r	1m0-11
2014-10-02	2456932.989	16.189 0.038	V	1m0-11	2014-09-23	2456924.117	15.922 0.026	r	1m0-11
2014-10-09	2456940.456	16.283 0.023	V	1m0-12	2014-09-27	2456928.071	15.973 0.023	r	1m0-11
2014-10-09	2456940.457	16.397 0.076	V	1m0-12	2014-09-27	2456928.071	15.966 0.010	r	1m0-11
2014-10-09	2456940.485	16.588 0.085	V	1m0-12	2014-10-02	2456932.991	16.046 0.027	r	1m0-11
2014-10-09	2456940.486	16.439 0.086	V	1m0-12	2014-10-02	2456932.992	16.057 0.025	r	1m0-11
2014-10-13	2456944.286	16.444 0.032	V	1m0-12	2014-10-06	2456936.572	16.140 0.046	r	1m0-08
2014-10-13	2456944.286	16.369 0.056	V	1m0-12	2014-10-09	2456940.460	16.099 0.009	r	1m0-12
2014-10-15	2456945.622	16.491 0.061	V	1m0-08	2014-10-09	2456940.460	16.089 0.012	r	1m0-12
2014-10-15	2456945.623	16.394 0.050	V	1m0-08	2014-10-09	2456940.489	16.133 0.049	r	1m0-12
2014-10-22	2456953.319	16.394 0.025	V	1m0-12	2014-10-09	2456940.489	16.320 0.071	r	1m0-12
2014-10-22	2456953.319	16.502 0.057	V	1m0-12	2014-10-13	2456944.289	16.186 0.047	r	1m0-12
2014-10-30	2456961.082	16.469 0.024	V	1m0-03	2014-10-13	2456944.290	16.115 0.045	r	1m0-12
2014-10-30	2456961.082	16.496 0.025	V	1m0-03	2014-10-15	2456945.625	16.109 0.008	r	1m0-08
2014-11-11	2456972.682	16.429 0.062	V	1m0-08	2014-10-15	2456945.626	16.094 0.009	r	1m0-08
2014-11-19	2456980.562	16.616 0.024	V	1m0-05	2014-10-22	2456953.322	16.122 0.015	r	1m0-12
2014-11-19	2456980.563	16.627 0.024	V	1m0-05	2014-10-22	2456953.322	16.117 0.013	r	1m0-12
2014-11-19	2456980.932	16.595 0.024	V	1m0-03	2014-10-30	2456961.085	16.159 0.009	r	1m0-03
2014-11-19	2456981.277	16.638 0.023	V	1m0-12	2014-10-30	2456961.086	16.125 0.014	r	1m0-03
2014-11-19	2456981.279	16.656 0.023	V	1m0-12	2014-11-07	2456968.910	16.183 0.013	r	1m0-11
2014-11-25	2456987.329	16.695 0.026	V	1m0-13	2014-11-07	2456968.910	16.201 0.015	r	1m0-11
2014-11-25	2456987.331	16.681 0.026	V	1m0-13	2014-11-11	2456972.689	16.081 0.029	r	1m0-08
2014-11-28	2456989.600	16.725 0.024	V	1m0-05	2014-11-11	2456972.690	16.205 0.018	r	1m0-08
2014-11-28	2456989.603	16.714 0.023	V	1m0-05	2014-11-19	2456980.570	16.284 0.010	r	1m0-05
2014-11-29	2456990.545	16.756 0.035	V	1m0-08	2014-11-19	2456980.940	16.288 0.008	r	1m0-03

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2014cy: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-19	2456981.286	16.261 0.010	r	1m0-12	2014-09-27	2456928.073	15.970 0.016	i	1m0-11
2014-11-19	2456981.287	$16.264\ 0.017$	r	1m0-12	2014-10-02	2456932.993	$16.012\ 0.013$	i	1m0-11
2014-11-25	2456987.344	$16.319\ 0.013$	r	1m0-13	2014-10-02	2456932.993	$16.056 \ 0.020$	i	1m0-11
2014 - 11 - 25	2456987.346	$16.310\ 0.013$	r	1m0-13	2014-10-06	2456936.574	$16.134\ 0.024$	i	1m0-08
2014-11-28	2456989.615	$16.348 \ 0.009$	r	1m0-05	2014-10-06	2456936.574	$16.185 \ 0.070$	i	1m0-08
2014-11-29	2456990.560	$16.373\ 0.008$	r	1m0-08	2014-10-09	2456940.461	$16.028 \ 0.013$	i	1m0-12
2014-11-29	2456990.562	$16.396 \ 0.008$	r	1m0-08	2014-10-09	2456940.490	$16.065 \ 0.015$	i	1m0-12
2014-12-03	2456994.548	$16.397 \ 0.011$	r	1m0-05	2014-10-09	2456940.491	$16.064\ 0.011$	i	1m0-12
2014-12-03	2456994.550	$16.400\ 0.009$	r	1m0-05	2014-10-13	2456944.290	16.178 0.083	i	1m0-12
2014-12-16	2457007.695	$16.661 \ 0.009$	r	1m0-08	2014-10-13	2456944.291	$16.050 \ 0.064$	i	1m0-12
2014-12-16	2457007.698	$16.637 \ 0.009$	r	1m0-08	2014-10-15	2456945.626	$16.031 \ 0.050$	i	1m0-08
2014-12-20	2457011.666	$16.785 \ 0.020$	r	1m0-08	2014-10-15	2456945.627	$16.063 \ 0.044$	i	1m0-08
2014-12-20	2457011.669	$16.829\ 0.018$	r	1m0-08	2014-10-22	2456953.323	$16.075 \ 0.016$	i	1m0-12
2014-12-25	2457016.673	$17.311\ 0.058$	r	1m0-08	2014-10-22	2456953.323	$16.069 \ 0.049$	i	1m0-12
2014-12-30	2457021.658	$17.757 \ 0.098$	r	1m0-08	2014-10-30	2456961.086	$16.069 \ 0.013$	i	1m0-03
2014-12-30	2457021.661	$17.605 \ 0.084$	r	1m0-08	2014-10-30	2456961.087	$16.103 \ 0.014$	i	1m0-03
2015-01-05	2457027.544	$19.507 \ 0.207$	r	1m0-05	2014-11-07	2456968.911	$16.072 \ 0.019$	i	1m0-11
2015-01-21	2457043.614	$20.417\ 0.286$	r	1m0-08	2014-11-07	2456968.911	$16.149\ 0.017$	i	1m0-11
2015-01-21	2457043.618	$19.719 \ 0.161$	r	1m0-08	2014-11-11	2456972.692	$16.006 \ 0.030$	i	1m0-08
2015-01-26	2457048.599	$19.641 \ 0.195$	r	1m0-08	2014-11-19	2456980.942	$16.274\ 0.026$	i	1m0-03
2015-01-28	2457050.567	$19.998 \ 0.102$	r	1m0-08	2014-11-19	2456981.289	$16.176\ 0.013$	i	1m0-12
2015-01-28	2457050.571	$19.808 \ 0.097$	r	1m0-08	2014-11-19	2456981.291	$16.168 \ 0.015$	i	1m0-12
2014-09-03	2456903.900	$16.251 \ 0.052$	i	1m0-08	2014-11-25	2456987.349	$16.163 \ 0.024$	i	1m0-13
2014-09-03	2456903.900	$16.198 \ 0.040$	i	1m0-08	2014-11-25	2456987.352	$16.282\ 0.023$	i	1m0-13
2014-09-04	2456905.439	$16.057 \ 0.044$	i	1m0-10	2014-11-28	2456989.620	$16.224\ 0.007$	i	1m0-05
2014-09-04	2456905.440	$16.006 \ 0.048$	i	1m0-10	2014-11-28	2456989.623	$16.231 \ 0.008$	i	1m0-05
2014-09-06	2456907.359	$16.087 \ 0.288$	i	1m0-10	2014-11-29	2456990.565	$16.244\ 0.009$	i	1m0-08
2014-09-08	2456909.439	$16.030 \ 0.018$	i	1m0-12	2014-11-29	2456990.567	$16.252\ 0.008$	i	1m0-08
2014-09-08	2456909.439	$16.028 \ 0.018$	i	1m0-12	2014-12-03	2456994.553	$16.300\ 0.010$	i	1m0-05
2014-09-11	2456912.083	$16.026 \ 0.021$	i	1m0-11	2014-12-16	2457007.700	$16.546 \ 0.009$	i	1m0-08
2014-09-11	2456912.083	$16.000\ 0.018$	i	1m0-11	2014-12-16	2457007.703	$16.543 \ 0.012$	i	1m0-08
2014-09-13	2456914.203	$15.995 \ 0.011$	i	1m0-03	2014-12-20	2457011.672	$16.667 \ 0.022$	i	1m0-08
2014-09-17	2456918.067	$15.983 \ 0.033$	i	1m0-11	2014-12-20	2457011.674	$16.678 \ 0.025$	i	1m0-08
2014-09-17	2456918.068	$16.050 \ 0.042$	i	1m0-11	2014-12-25	2457016.677	$17.545 \ 0.086$	i	1m0-08
2014-09-20	2456920.921	$15.977 \ 0.064$	i	1m0-08	2015-01-05	2457027.552	$19.031 \ 0.150$	i	1m0-05
2014-09-20	2456920.922	$15.911\ 0.011$	i	1m0-08	2015-01-05	2457027.555	$19.177 \ 0.161$	i	1m0-05
2014-09-21	2456922.470	$16.020\ 0.036$	i	1m0-10	2015-01-19	2457041.631	$19.496 \ 0.205$	i	1m0-08
2014-09-21	2456922.470	$16.011 \ 0.032$	i	1m0-10	2015-01-20	2457042.610	$20.268 \ 0.250$	i	1m0-08
2014-09-23	2456924.117	$15.884\ 0.028$	i	1m0-11	2015-01-26	2457048.603	$20.897\ 0.278$	i	1m0-08
2014-09-23	2456924.118	$15.922\ 0.035$	i	1m0-11	2015-01-28	2457050.575	$19.902\ 0.130$	i	1m0-08
2014-09-27	2456928.072	$15.961\ 0.020$	i	1m0-11	2015-01-28	2457050.578	$20.190\ 0.138$	i	1m0-08

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14kg: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-27	2456988.767	16.448 0.020	B	1m0-08	2015-01-28	2457050.651	18.563 0.037	g	1m0-08
2014-11-27	2456988.769	16.517 0.020	\overline{B}	1m0-08	2015-01-28	2457050.654	18.557 0.038	g	1m0-08
2014-11-27	2456988.832	16.458 0.019	\overline{B}	1m0-08	2015-01-29	2457051.655	18.497 0.052	g	1m0-08
2014-11-27	2456988.835	16.544 0.019	\overline{B}	1m0-08	2015-01-29	2457051.658	18.548 0.052	g	1m0-08
2014-11-28	2456989.700	16.480 0.020	\overline{B}	1m0-08	2015-02-05	2457058.613	18.752 0.072	g	1m0-08
2014-11-28	2456989.703	16.478 0.019	\overline{B}	1m0-08	2015-02-05	2457058.616	18.770 0.076	g	1m0-08
2014-11-30	2456991.578	16.551 0.021	B	1m0-08	2015-02-09	2457062.621	19.000 0.076	g	1m0-08
2014-11-30	2456991.581	16.557 0.020	\overline{B}	1m0-08	2015-02-09	2457062.625	19.031 0.073	g	1m0-08
2014-12-01	2456992.642	$16.652 \ 0.022$	B	1m0-08	2015-02-11	2457064.642	19.026 0.092	g	1m0-08
2014-12-01	2456992.645	16.625 0.023	B	1m0-08	2015-02-11	2457064.646	18.962 0.076	g	1m0-08
2014-12-02	2456993.783	16.647 0.030	B	1m0-08	2015-02-19	2457072.609	19.144 0.082	g	1m0-08
2014-12-02	2456993.785	$16.625 \ 0.022$	B	1m0-08	2015-02-20	2457073.618	19.340 0.084	g	1m0-08
2014-12-12	2457003.771	$17.240\ 0.029$	B	1m0-08	2015-02-22	2457075.574	$19.423 \ 0.102$	g	1m0-08
2014-12-12	2457003.774	$17.231 \ 0.025$	B	1m0-08	2015-03-07	2457088.577	$19.847\ 0.238$	g	1m0-08
2014-12-16	2457007.728	$17.479 \ 0.038$	B	1m0-08	2015-03-07	2457088.581	$20.061 \ 0.176$	g	1m0-08
2014-12-16	2457007.730	$17.445 \ 0.036$	B	1m0-08	2014-11-11	2456972.880	< 16.900	V	Atel/CBAT
2014-12-25	2457016.711	$17.888 \ 0.053$	B	1m0-08	2014-11-12	2456973.860	$16.900 \ 0.500$	V	Atel/CBAT
2014-12-29	2457020.642	$18.253 \ 0.079$	B	1m0-08	2014-11-17	2456978.860	$16.400\ 0.100$	V	Atel/CBAT
2014-12-29	2457020.644	$18.320\ 0.079$	B	1m0-08	2014-11-27	2456988.772	$16.159 \ 0.023$	V	1m0-08
2015-01-16	2457038.686	$18.972\ 0.120$	B	1m0-08	2014-11-27	2456988.774	$16.166\ 0.024$	V	1m0-08
2015-01-21	2457043.688	$19.017 \ 0.083$	B	1m0-08	2014-11-27	2456988.839	$16.175 \ 0.022$	V	1m0-08
2015-01-21	2457043.691	18.979 0.081	B	1m0-08	2014-11-28	2456989.707	$16.170\ 0.022$	V	1m0-08
2015-01-28	2457050.638	$19.364\ 0.120$	B	1m0-08	2014-11-30	2456991.583	$16.165 \ 0.023$	V	1m0-08
2015-01-28	2457050.642	$19.323\ 0.157$	B	1m0-08	2014-11-30	2456991.585	$16.174\ 0.024$	V	1m0-08
2015-01-29	2457051.642	$19.121\ 0.116$	B	1m0-08	2014-12-01	2456992.647	$16.151 \ 0.024$	V	1m0-08
2015-01-29	2457051.646	$19.379 \ 0.150$	B	1m0-08	2014-12-01	2456992.649	$16.158 \ 0.025$	V	1m0-08
2015-02-05	2457058.600	$19.683 \ 0.225$	B	1m0-08	2014-12-02	2456993.788	$16.190\ 0.028$	V	1m0-08
2015-02-05	2457058.604	$19.758 \ 0.260$	B	1m0-08	2014-12-12	2457003.776	$16.314\ 0.024$	V	1m0-08
2015-02-09	2457062.609	$19.533 \ 0.262$	B	1m0-08	2014-12-12	2457003.778	$16.321\ 0.026$	V	1m0-08
2015-02-09	2457062.612	$19.715 \ 0.208$	B	1m0-08	2014-12-16	2457007.733	$16.458 \ 0.023$	V	1m0-08
2015-02-11	2457064.629	$19.927 \ 0.256$	B	1m0-08	2014-12-16	2457007.734	16.460 0.023	V	1m0-08
2015-02-11	2457064.632	19.908 0.297	B	1m0-08	2014-12-20	2457011.739	16.587 0.024	V	1m0-08
2015-02-19	2457072.569	20.735 0.467	B	1m0-08	2014-12-20	2457011.740	16.601 0.028	V	1m0-08
2015-02-19	2457072.573	20.191 0.264	B	1m0-08	2014-12-25	2457016.714	16.693 0.039	V	1m0-08
2014-11-27	2456988.775	16.211 0.013	g	1m0-08	2014-12-29	2457020.647	16.783 0.041	V	1m0-08
2014-11-27	2456988.778	16.225 0.013	g	1m0-08	2014-12-29	2457020.649	16.865 0.035	V	1m0-08
2014-11-27	2456988.841	16.232 0.013	g	1m0-08	2014-12-30	2457021.682	16.857 0.055	V	1m0-08
2014-11-27	2456988.843	16.219 0.013	g	1m0-08	2014-12-30	2457021.683	16.886 0.054	V	1m0-08
2014-11-28 2014-11-28	2456989.709	16.237 0.013	g	1m0-08 1m0-08	2015-01-16	2457038.689 2457038.691	17.258 0.035 17.326 0.046	$V \ V$	1m0-08
	2456989.712	16.242 0.013	g	1m0-08	2015-01-16	2457038.691		V V	1m0-08 1m0-08
2014-11-30 2014-11-30	$2456991.587 \\ 2456991.589$	16.270 0.014 16.264 0.015	g	1m0-08	2015-01-21 2015-01-21	2457043.698	17.395 0.030 17.405 0.028	V V	1m0-08
2014-11-30	2456992.651	16.272 0.013	$rac{g}{g}$	1m0-08	2015-01-21	2457046.655	17.421 0.087	V = V	1m0-08
2014-12-01	2456992.653	16.299 0.013		1m0-08	2015-01-24	2457050.645	17.576 0.030	$\stackrel{\scriptstyle V}{V}$	1m0-08
2014-12-01	2456993.794	16.317 0.013	$rac{g}{g}$	1m0-08	2015-01-28	2457050.648	17.578 0.033	$\stackrel{\prime}{V}$	1m0-08
2014-12-02	2457003.780	16.728 0.015	g	1m0-08	2015-01-29	2457051.649	17.583 0.038	$\stackrel{\prime}{V}$	1m0-08
2014-12-12	2457003.782	16.731 0.014	g	1m0-08	2015-01-29	2457051.652	17.590 0.035	$\stackrel{\cdot}{V}$	1m0-08
2014-12-16	2457007.736	16.937 0.016	g	1m0-08	2015-02-05	2457058.610	17.745 0.033	$\stackrel{\cdot}{V}$	1m0-08
2014-12-16	2457007.739	16.931 0.017	g	1m0-08	2015-02-09	2457062.616	17.875 0.044	$\stackrel{\cdot}{V}$	1m0-08
2014-12-20	2457011.745	17.136 0.022	g	1m0-08	2015-02-09	2457062.619	17.846 0.034	V	1m0-08
2014-12-25	2457016.717	17.237 0.032	g	1m0-08	2015-02-11	2457064.636	17.904 0.035	$\stackrel{\cdot}{V}$	1m0-08
2014-12-25	2457016.720	17.260 0.032	g	1m0-08	2015-02-11	2457064.639	17.876 0.039	V	1m0-08
2014-12-29	2457020.650	17.474 0.024	g	1m0-08	2015-02-19	2457072.576	18.012 0.046	V	1m0-08
2014-12-29	2457020.653	17.557 0.026	g	1m0-08	2015-02-19	2457072.579	18.093 0.063	V	1m0-08
2014-12-30	2457021.685	17.503 0.037	g	1m0-08	2015-02-20	2457073.605	18.111 0.046	V	1m0-08
2014-12-30	2457021.688	$17.475\ 0.031$	g	1m0-08	2015-02-20	2457073.607	18.169 0.051	V	1m0-08
2015-01-16	2457038.692	18.173 0.040	g	1m0-08	2014-11-27	2456988.781	$16.145 \ 0.015$	r	1m0-08
2015-01-16	2457038.695	$18.032\ 0.038$	g	1m0-08	2014-11-27	2456988.782	$16.147\ 0.016$	r	1m0-08
2015-01-24	2457046.658	$18.355\ 0.072$	g	1m0-08	2014-11-27	2456988.846	$16.136\ 0.015$	r	1m0-08
2015-01-24	2457046.662	$18.336\ 0.057$	g	1m0-08	2014-11-27	2456988.848	$16.147\ 0.015$	r	1m0-08

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: ASASSN-14kg: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-28	2456989.714	16.126 0.016	r	1m0-08	2014-11-27	2456988.784	16.300 0.018	i	1m0-08
2014-11-28	2456989.716	$16.138 \ 0.015$	r	1m0-08	2014-11-27	2456988.786	16.293 0.018	i	1m0-08
2014-11-30	2456991.592	16.118 0.016	r	1m0-08	2014-11-27	2456988.849	16.311 0.018	i	1m0-08
2014-11-30	2456991.594	$16.121\ 0.016$	r	1m0-08	2014-11-27	2456988.851	$16.279 \ 0.018$	i	1m0-08
2014-12-01	2456992.656	$16.144\ 0.016$	r	1m0-08	2014-11-28	2456989.718	$16.271\ 0.018$	i	1m0-08
2014-12-01	2456992.657	$16.098 \ 0.015$	r	1m0-08	2014-11-28	2456989.719	$16.287 \ 0.018$	i	1m0-08
2014-12-02	2456993.796	$16.054\ 0.018$	r	1m0-08	2014-11-30	2456991.595	$16.239\ 0.018$	i	1m0-08
2014-12-02	2456993.798	$16.072\ 0.020$	r	1m0-08	2014-11-30	2456991.597	$16.266 \ 0.019$	i	1m0-08
2014-12-12	2457003.785	$16.095 \ 0.018$	r	1m0-08	2014-12-01	2456992.659	$16.245 \ 0.020$	i	1m0-08
2014-12-12	2457003.786	$16.113\ 0.016$	r	1m0-08	2014-12-01	2456992.661	$16.146 \ 0.021$	i	1m0-08
2014-12-16	2457007.741	$16.202\ 0.016$	r	1m0-08	2014-12-02	2456993.800	$16.209 \ 0.029$	i	1m0-08
2014-12-16	2457007.743	$16.204\ 0.016$	r	1m0-08	2014-12-02	2456993.801	$16.232\ 0.022$	i	1m0-08
2014-12-20	2457011.747	$16.287 \ 0.016$	r	1m0-08	2014-12-12	2457003.788	$16.235 \ 0.023$	i	1m0-08
2014-12-20	2457011.749	$16.284\ 0.017$	r	1m0-08	2014-12-12	2457003.790	$16.226\ 0.016$	i	1m0-08
2014-12-25	2457016.724	$16.657 \ 0.056$	r	1m0-08	2014-12-16	2457007.745	$16.222\ 0.017$	i	1m0-08
2014-12-29	2457020.656	$16.393\ 0.020$	r	1m0-08	2014-12-16	2457007.746	$16.272\ 0.046$	i	1m0-08
2014-12-29	2457020.657	$16.402\ 0.018$	r	1m0-08	2014-12-20	2457011.751	$16.335 \ 0.020$	i	1m0-08
2014-12-30	2457021.690	$16.388 \ 0.031$	r	1m0-08	2014-12-20	2457011.752	$16.311\ 0.028$	i	1m0-08
2014-12-30	2457021.692	$16.490\ 0.019$	r	1m0-08	2014-12-25	2457016.727	$16.553 \ 0.052$	i	1m0-08
2015-01-16	2457038.697	$16.783 \ 0.018$	r	1m0-08	2014-12-29	2457020.659	$16.558 \ 0.029$	i	1m0-08
2015-01-16	2457038.699	$16.769 \ 0.020$	r	1m0-08	2014-12-29	2457020.661	$16.468 \ 0.027$	i	1m0-08
2015-01-24	2457046.666	$16.677 \ 0.029$	r	1m0-08	2014-12-30	2457021.694	$16.461 \ 0.034$	i	1m0-08
2015-01-24	2457046.668	$16.787 \ 0.035$	r	1m0-08	2014-12-30	2457021.695	$16.498 \ 0.033$	i	1m0-08
2015-01-28	2457050.658	$16.988 \ 0.019$	r	1m0-08	2015-01-16	2457038.701	$16.776 \ 0.029$	i	1m0-08
2015-01-28	2457050.661	$16.993 \ 0.021$	r	1m0-08	2015-01-16	2457038.702	$16.799 \ 0.028$	i	1m0-08
2015-01-29	2457051.662	$17.015 \ 0.021$	r	1m0-08	2015-01-24	2457046.671	$16.685 \ 0.044$	i	1m0-08
2015-02-05	2457058.620	$17.129\ 0.026$	r	1m0-08	2015-01-24	2457046.673	$16.611 \ 0.042$	i	1m0-08
2015-02-05	2457058.623	$17.118 \ 0.025$	r	1m0-08	2015-01-28	2457050.663	$16.963 \ 0.022$	i	1m0-08
2015-02-09	2457062.629	$17.172\ 0.022$	r	1m0-08	2015-02-05	2457058.625	$17.095 \ 0.030$	i	1m0-08
2015-02-09	2457062.631	$17.194\ 0.023$	r	1m0-08	2015-02-05	2457058.628	$17.298 \ 0.094$	i	1m0-08
2015-02-11	2457064.650	$17.225 \ 0.023$	r	1m0-08	2015-02-09	2457062.634	$17.212\ 0.022$	i	1m0-08
2015-02-11	2457064.652	$17.221\ 0.020$	r	1m0-08	2015-02-09	2457062.637	$17.186 \ 0.029$	i	1m0-08
2015-02-19	2457072.616	$17.414\ 0.027$	r	1m0-08	2015-02-11	2457064.655	$17.213\ 0.027$	i	1m0-08
2015-02-19	2457072.619	$17.419 \ 0.062$	r	1m0-08	2015-02-11	2457064.658	$17.243 \ 0.029$	i	1m0-08
2015-02-20	2457073.622	$17.428\ 0.025$	r	1m0-08	2015-02-20	2457073.627	$17.438\ 0.033$	i	1m0-08
2015-02-20	2457073.625	$17.424\ 0.025$	r	1m0-08	2015-02-20	2457073.630	$17.407 \ 0.030$	i	1m0-08
2015-02-22	2457075.578	$17.422\ 0.032$	r	1m0-08	2015-02-22	2457075.583	$17.443 \ 0.029$	i	1m0-08
2015-02-22	2457075.580	$17.425\ 0.027$	r	1m0-08	2015-02-22	2457075.586	$17.498 \ 0.035$	i	1m0-08
2015-03-07	2457088.587	$17.909 \ 0.050$	r	1m0-08	2015-03-07	2457088.592	17.951 0.069	i	1m0-08
2015-03-07	2457088.589	$17.877 \ 0.049$	r	1m0-08	2015-03-07	2457088.594	$17.834\ 0.068$	i	1m0-08

⁽a) Data have not been corrected for extinction (b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN2013ai: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-03-05	2456356.563	18.061 0.020	B	1m0-04	2013-05-09	2456422.470	20.536 0.184	B	1m0-05
2013-03-05	2456356.564	18.093 0.017	B	1m0-04	2013-03-05	2456356.567	17.701 0.012	g	1m0-04
2013-03-06	2456357.563	18.067 0.019	B	1m0-04	2013-03-05	2456356.568	17.723 0.010	g	1m0-04
2013-03-06	2456357.564	18.002 0.017	B	1m0-04	2013-03-06	2456357.567	17.624 0.013	g	1m0-04
2013-03-14	2456365.604	18.104 0.020	B	1m0-09	2013-03-06	2456357.568	17.669 0.017	g	1m0-04
2013-03-14	2456365.605	18.160 0.018	B	1m0-09	2013-03-14	2456365.609	$17.567 \ 0.014$	g	1m0-09
2013-03-15	2456366.604	$17.962 \ 0.028$	B	1m0-09	2013-03-14	2456365.610	$17.558 \ 0.015$	g	1m0-09
2013-03-15	2456366.606	$18.183 \ 0.053$	B	1m0-09	2013-03-15	2456366.609	17.711 0.017	g	1m0-09
2013-03-16	2456367.604	$18.125 \ 0.022$	B	1m0-09	2013-03-15	2456366.610	$17.572 \ 0.013$	g	1m0-09
2013-03-16	2456367.606	18.086 0.018	B	1m0-09	2013-03-16	2456367.609	17.591 0.013	g	1m0-09
2013-03-17	2456368.605	$18.176 \ 0.022$	B	1m0-09	2013-03-16	2456367.610	$17.636 \ 0.016$	g	1m0-09
2013-03-17	2456368.606	$18.148 \ 0.022$	B	1m0-09	2013-03-17	2456368.609	$17.671 \ 0.010$	g	1m0-09
2013-03-18	2456369.605	$18.159 \ 0.019$	B	1m0-09	2013-03-17	2456368.610	$17.651 \ 0.009$	g	1m0-09
2013-03-18	2456369.606	$18.249 \ 0.020$	B	1m0-09	2013-03-18	2456369.609	$17.639 \ 0.012$	g	1m0-09
2013-03-19	2456370.605	$18.287 \ 0.021$	B	1m0-09	2013-03-18	2456369.611	$17.621 \ 0.014$	g	1m0-09
2013-03-19	2456370.606	$18.305 \ 0.033$	B	1m0-09	2013-03-19	2456370.609	$17.664 \ 0.014$	g	1m0-09
2013-03-24	2456375.573	$18.611 \ 0.029$	B	1m0-09	2013-03-19	2456370.611	$17.678 \ 0.014$	g	1m0-09
2013-03-24	2456375.575	$18.551 \ 0.031$	B	1m0-09	2013-03-24	2456375.579	$17.875 \ 0.016$	g	1m0-09
2013-03-27	2456378.575	$18.635 \ 0.033$	B	1m0-09	2013-03-24	2456375.581	$17.784\ 0.017$	g	1m0-09
2013-03-28	2456379.575	$18.790 \ 0.107$	B	1m0-09	2013-03-26	2456377.581	$17.956 \ 0.031$	g	1m0-09
2013-03-28	2456380.261	$18.939 \ 0.031$	B	1m0-12	2013-03-27	2456378.581	$17.952\ 0.030$	g	1m0-09
2013-03-28	2456380.262	$19.034\ 0.050$	B	1m0-12	2013-03-28	2456380.266	$18.019 \ 0.015$	g	1m0-12
2013-03-29	2456380.566	$18.851 \ 0.046$	B	1m0-09	2013-03-28	2456380.268	$18.014\ 0.015$	g	1m0-12
2013-03-29	2456380.568	$18.784\ 0.029$	B	1m0-09	2013-03-29	2456380.572	$17.995 \ 0.019$	g	1m0-09
2013-04-03	2456385.500	$19.220\ 0.041$	B	1m0-09	2013-03-29	2456380.574	$17.994\ 0.015$	g	1m0-09
2013-04-03	2456385.502	$19.066 \ 0.047$	B	1m0-09	2013-04-03	2456385.507	$18.224\ 0.017$	g	1m0-09
2013-04-04	2456387.230	$19.213\ 0.046$	B	1m0-13	2013-04-03	2456385.508	$18.162\ 0.015$	g	1m0-09
2013-04-04	2456387.231	$18.955 \ 0.033$	B	1m0-13	2013-04-04	2456387.236	$18.291\ 0.024$	g	1m0-13
2013-04-05	2456387.500	$19.251 \ 0.045$	B	1m0-09	2013-04-04	2456387.237	$18.272\ 0.020$	g	1m0-13
2013-04-05	2456388.229	$19.144\ 0.049$	B	1m0-13	2013-04-05	2456387.507	$18.262\ 0.018$	g	1m0-09
2013-04-05	2456388.231	$19.304\ 0.041$	B	1m0-13	2013-04-05	2456387.509	$18.257 \ 0.017$	g	1m0-09
2013-04-06	2456388.500	$19.186 \ 0.057$	B	1m0-09	2013-04-05	2456388.236	$18.255 \ 0.016$	g	1m0-13
2013-04-06	2456388.502	$19.288 \ 0.048$	B	1m0-09	2013-04-05	2456388.237	$18.345 \ 0.020$	g	1m0-13
2013-04-06	2456389.230	$19.299 \ 0.049$	B	1m0-13	2013-04-06	2456388.507	$18.340\ 0.017$	g	1m0-09
2013-04-06	2456389.232	$19.403 \ 0.042$	B	1m0-13	2013-04-06	2456388.509	$18.312\ 0.021$	g	1m0-09
2013-04-11	2456393.500	$19.531 \ 0.073$	B	1m0-09	2013-04-06	2456389.236	$18.336\ 0.018$	g	1m0-13
2013-04-11	2456393.502	$19.433 \ 0.075$	B	1m0-09	2013-04-06	2456389.238	$18.382\ 0.018$	g	1m0-13
2013-04-11	2456394.210	$19.274\ 0.103$	B	1m0-13	2013-04-11	2456393.506	$18.469 \ 0.021$	g	1m0-09
2013-04-11	2456394.211	19.179 0.086	B	1m0-13	2013-04-11	2456393.508	$18.437 \ 0.025$	g	1m0-09
2013-04-12	2456394.504	19.458 0.080	B	1m0-09	2013-04-11	2456394.217	$18.532 \ 0.029$	g	1m0-13
2013-04-13	2456395.500	$19.705 \ 0.083$	B	1m0-09	2013-04-12	2456394.510	$18.543 \ 0.027$	g	1m0-09
2013-04-13	2456396.209	$19.574\ 0.136$	B	1m0-13	2013-04-12	2456394.512	$18.472\ 0.028$	g	1m0-09
2013-04-15	2456397.500	$19.602 \ 0.055$	B	1m0-09	2013-04-13	2456395.506	18.406 0.030	g	1m0-09
2013-04-15	2456397.502	$19.564 \ 0.079$	B	1m0-09	2013-04-13	2456395.508	$18.483\ 0.024$	g	1m0-09
2013-04-15	2456398.209	$19.534\ 0.077$	B	1m0-13	2013-04-15	2456397.507	$18.520\ 0.022$	g	1m0-09
2013-04-15	2456398.211	19.474 0.090	B	1m0-13	2013-04-15	2456397.508	$18.564 \ 0.024$	g	1m0-09
2013-04-18	2456400.500	$19.772\ 0.080$	B	1m0-09	2013-04-15	2456398.218	$18.465 \ 0.037$	g	1m0-13
2013-04-18	2456400.505	19.808 0.063	B	1m0-09	2013-04-18	2456400.515	18.634 0.043	g	1m0-09
2013-04-20	2456402.500	19.808 0.092	B	1m0-09	2013-04-18	2456400.519	$18.610 \ 0.027$	g	1m0-09
2013-04-20	2456402.505	19.810 0.072	B	1m0-09	2013-04-20	2456402.514	18.784 0.032	g	1m0-09
2013-04-22	2456404.500	$20.083 \ 0.072$	B	1m0-09	2013-04-20	2456402.519	18.715 0.022	g	1m0-09
2013-04-22	2456404.505	19.722 0.083	B	1m0-09	2013-04-22	2456404.515	18.766 0.033	g	1m0-09
2013-04-23	2456405.505	19.711 0.088	B	1m0-09	2013-04-22	2456404.520	18.817 0.032	g	1m0-09
2013-04-24									
2010-04-24		19.762 0.096	B	1m0-05	1 2013-04-23	2456405.514	18.739 0.025	а	1m0-09
	2456407.476	$19.762 \ 0.096$ $19.985 \ 0.142$	$B \\ B$	1m0-05 1m0-09	2013-04-23 2013-04-23	2456405.514 2456405.519	18.739 0.025 18.681 0.032	$\frac{g}{q}$	1m0-09 1m0-09
2013-04-28	$2456407.476 \\ 2456411.473$	$19.985 \ 0.142$	B	1m0-09	2013-04-23	2456405.519	$18.681\ 0.032$	g	1m0-09
2013-04-28 2013-04-29	2456407.476 2456411.473 2456412.476	$19.985 \ 0.142 \\ 20.118 \ 0.110$	B B	1m0-09 1m0-09	2013-04-23 2013-04-24	$2456405.519 \\ 2456407.483$	18.681 0.032 18.956 0.048	$g \\ g$	1m0-09 1m0-05
2013-04-28 2013-04-29 2013-05-03	2456407.476 2456411.473 2456412.476 2456416.461	19.985 0.142 20.118 0.110 20.432 0.230	$egin{array}{c} B \ B \ B \end{array}$	1m0-09 1m0-09 1m0-05	2013-04-23 2013-04-24 2013-04-24	2456405.519 2456407.483 2456407.486	18.681 0.032 18.956 0.048 18.919 0.031	$egin{array}{c} g \ g \ g \end{array}$	1m0-09 1m0-05 1m0-05
2013-04-28 2013-04-29	2456407.476 2456411.473 2456412.476	$19.985 \ 0.142 \\ 20.118 \ 0.110$	B B	1m0-09 1m0-09	2013-04-23 2013-04-24	$2456405.519 \\ 2456407.483$	18.681 0.032 18.956 0.048	$g \\ g$	1m0-09 1m0-05

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN2013ai: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-04-29	2456412.484	18.999 0.028	g	1m0-09	2013-04-20	2456402.509	17.958 0.014	V	1m0-09
2013-04-29	2456412.487	$18.988 \ 0.032$	g	1m0-09	2013-04-20	2456402.512	$17.930\ 0.014$	V	1m0-09
2013-05-03	2456416.474	$19.149 \ 0.039$	g	1m0-05	2013-04-22	2456404.510	$18.035 \ 0.015$	V	1m0-09
2013-05-03	2456416.479	$19.165 \ 0.038$	g	1m0-05	2013-04-22	2456404.512	$18.022\ 0.015$	V	1m0-09
2013-05-08	2456421.453	$19.406 \ 0.100$	g	1m0-09	2013-04-23	2456405.509	$18.044\ 0.021$	V	1m0-09
2013-05-09	2456422.477	$19.320\ 0.043$	g	1m0-05	2013-04-23	2456405.512	$18.091 \ 0.026$	V	1m0-09
2013-05-09	2456422.480	$19.467 \ 0.070$	g	1m0-05	2013-04-24	2456407.479	$18.000 \ 0.015$	V	1m0-05
2013-05-10	2456423.451	$19.287 \ 0.051$	g	1m0-09	2013-04-24	2456407.481	18.058 0.018	V	1m0-05
2013-05-10	2456423.454	$19.220\ 0.057$	g	1m0-09	2013-04-27	2456410.479	$18.133 \ 0.077$	V	1m0-09
2013-05-14	2456427.449	$19.128 \ 0.065$	g	1m0-09	2013-04-28	2456411.479	$18.143 \ 0.064$	V	1m0-09
2013-05-14	2456427.452	$19.335 \ 0.080$	g	1m0-09	2013-04-28	2456411.481	$18.155 \ 0.020$	V	1m0-09
2013-03-05	2456356.565	$17.375 \ 0.009$	V	1m0-04	2013-04-29	2456412.479	$18.141\ 0.018$	V	1m0-09
2013-03-05	2456356.566	$17.352\ 0.011$	V	1m0-04	2013-04-29	2456412.482	$18.150\ 0.019$	V	1m0-09
2013-03-06	2456357.565	$17.395 \ 0.008$	V	1m0-04	2013-05-03	2456416.472	$18.279 \ 0.021$	V	1m0-05
2013-03-06	2456357.566	$17.357 \ 0.011$	V	1m0-04	2013-05-07	2456420.447	$18.534\ 0.040$	V	1m0-09
2013-03-14	2456365.607	$17.239 \ 0.009$	V	1m0-09	2013-05-07	2456420.449	$18.436 \ 0.041$	V	1m0-09
2013-03-14	2456365.608	$17.214\ 0.008$	V	1m0-09	2013-05-09	2456422.473	$18.346\ 0.019$	V	1m0-05
2013-03-15	2456366.607	$17.110\ 0.018$	V	1m0-09	2013-05-09	2456422.475	$18.332\ 0.020$	V	1m0-05
2013-03-15	2456366.608	$17.095 \ 0.015$	V	1m0-09	2013-05-10	2456423.449	$18.521\ 0.200$	V	1m0-09
2013-03-16	2456367.607	$17.247\ 0.010$	V	1m0-09	2013-05-20	2456433.195	$18.546 \ 0.200$	V	1m0-10
2013-03-16	2456367.608	$17.226\ 0.012$	V	1m0-09	2013-05-20	2456433.197	$18.404\ 0.200$	V	1m0-10
2013-03-17	2456368.607	$17.244\ 0.010$	V	1m0-09	2013-05-20	2456433.451	$18.545 \ 0.200$	V	1m0-05
2013-03-17	2456368.608	$17.208 \ 0.009$	V	1m0-09	2013-05-22	2456435.453	$18.541 \ 0.200$	V	1m0-05
2013-03-18	2456369.607	$17.274\ 0.010$	V	1m0-09	2013-05-27	2456440.195	$18.561 \ 0.200$	V	1m0-10
2013-03-18	2456369.608	$17.259 \ 0.009$	V	1m0-09	2013-02-06	2456330.000	< 19.000	r	Atel/CBAT
2013-03-19	2456370.607	$17.256\ 0.013$	V	1m0-09	2013-02-26	2456350.000	$18.300\ 0.000$	r	Atel/CBAT
2013-03-19	2456370.608	$17.273\ 0.010$	V	1m0-09	2013-03-01	2456352.567	$17.600\ 0.000$	r	Atel/CBAT
2013-03-24	2456375.577	$17.349 \ 0.009$	V	1m0-09	2013-03-05	2456356.569	$17.156 \ 0.019$	r	1m0-04
2013-03-24	2456375.578	$17.385 \ 0.010$	V	1m0-09	2013-03-05	2456356.570	$17.186 \ 0.018$	r	1m0-04
2013-03-27	2456378.577	$17.413 \ 0.009$	V	1m0-09	2013-03-06	2456357.569	$17.089 \ 0.016$	r	1m0-04
2013-03-27	2456378.578	$17.386 \ 0.066$	V	1m0-09	2013-03-06	2456357.570	$17.106 \ 0.020$	r	1m0-04
2013-03-28	2456380.264	$17.440\ 0.015$	V	1m0-12	2013-03-14	2456365.611	$16.862 \ 0.010$	r	1m0-09
2013-03-28	2456380.265	$17.491 \ 0.014$	V	1m0-12	2013-03-14	2456365.612	$16.905 \ 0.012$	r	1m0-09
2013-03-29	2456380.570	$17.474 \ 0.011$	V	1m0-09	2013-03-15	2456366.611	$16.816 \ 0.016$	r	1m0-09
2013-03-29	2456380.571	$17.460 \ 0.009$	V	1m0-09	2013-03-15	2456366.612	$16.871 \ 0.021$	r	1m0-09
2013-04-03	2456385.504	$17.617 \ 0.012$	V	1m0-09	2013-03-16	2456367.611	$16.855 \ 0.039$	r	1m0-09
2013-04-03	2456385.505	$17.586 \ 0.013$	V	1m0-09	2013-03-16	2456367.612	$16.857 \ 0.036$	r	1m0-09
2013-04-04	2456387.233	$17.604 \ 0.012$	V	1m0-13	2013-03-17	2456368.612	$16.875 \ 0.013$	r	1m0-09
2013-04-05	2456387.505	$17.691 \ 0.071$	V	1m0-09	2013-03-17	2456368.613	$16.854 \ 0.013$	r	1m0-09
2013-04-05	2456387.506	$17.620\ 0.012$	V	1m0-09	2013-03-18	2456369.612	$16.898 \ 0.011$	r	1m0-09
2013-04-05	2456388.233	17.677 0.011	V	1m0-13	2013-03-18	2456369.613	$16.895 \ 0.010$	r	1m0-09
2013-04-05	2456388.234	17.644 0.014	V	1m0-13	2013-03-19	2456370.613	$16.881 \ 0.015$	r	1m0-09
2013-04-06	2456388.504	17.779 0.019	V	1m0-09	2013-03-24	2456375.582	16.916 0.012	r	1m0-09
2013-04-06	2456388.505	17.681 0.015	V	1m0-09	2013-03-28	2456380.270	$16.930 \ 0.017$	r	1m0-12
2013-04-06	2456389.234	17.654 0.013	V	1m0-13	2013-03-29	2456380.575	$16.953 \ 0.012$	r	1m0-09
2013-04-06	2456389.235	$17.605 \ 0.014$	V	1m0-13	2013-03-29	2456380.576	$16.936 \ 0.024$	r	1m0-09
2013-04-11	2456393.505	17.721 0.016	V	1m0-09	2013-04-03	2456385.510	$17.018 \ 0.013$	r	1m0-09
2013-04-11	2456394.213	$17.675 \ 0.021$	V	1m0-13	2013-04-03	2456385.511	17.023 0.011	r	1m0-09
2013-04-11	2456394.214	$17.770\ 0.020$	V	1m0-13	2013-04-04	2456387.239	$17.105 \ 0.014$	r	1m0-13
2013-04-12	2456394.507	17.821 0.022	V	1m0-09	2013-04-04	2456387.240	17.084 0.014	r	1m0-13
2013-04-12	2456394.509	17.783 0.018	V	1m0-09	2013-04-05	2456387.511	17.093 0.015	r	1m0-09
2013-04-13	2456395.504	17.747 0.014	V	1m0-09	2013-04-05	2456388.239	17.096 0.017	r	1m0-13
2013-04-13	2456395.505	17.710 0.018	V	1m0-09	2013-04-05	2456388.240	17.081 0.013	r	1m0-13
2013-04-13	2456396.213	$17.744\ 0.021$	V	1m0-13	2013-04-06	2456388.511	17.087 0.020	r	1m0-09
2013-04-13	2456396.214	17.830 0.022	V	1m0-13	2013-04-06	2456388.512	17.106 0.013	r	1m0-09
2013-04-15	2456397.504	17.850 0.018	V	1m0-09	2013-04-06	2456389.240	17.149 0.015	r	1m0-13
2013-04-15	2456397.505	17.839 0.009	V	1m0-09	2013-04-06	2456389.241	17.146 0.015	r	1m0-13
2013-04-15	2456398.213	17.881 0.043	V	1m0-13	2013-04-11	2456393.509	$17.192 \ 0.025$	r	1m0-09
2013-04-18	2456400.510	17.912 0.018	V	1m0-09	2013-04-11	2456393.511	17.140 0.024	r	1m0-09
2013-04-18	2456400.512	$17.901 \ 0.013$	V	1m0-09	2013-04-11	2456394.219	$17.225 \ 0.027$	r	1m0-13

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN2013ai: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2013-04-12	2456394.514	17.169 0.034	r	1m0-09	2013-04-04	2456387.241	16.719 0.008	i	1m0-13
2013-04-12	2456394.515	$17.132\ 0.037$	r	1m0-09	2013-04-05	2456388.242	$16.726\ 0.010$	i	1m0-13
2013-04-13	2456395.511	$17.193 \ 0.033$	r	1m0-09	2013-04-11	2456393.513	$16.800\ 0.012$	i	1m0-09
2013-04-15	2456397.510	$17.206 \ 0.014$	r	1m0-09	2013-04-11	2456394.221	$16.785 \ 0.014$	i	1m0-13
2013-04-15	2456397.512	$17.222\ 0.016$	r	1m0-09	2013-04-11	2456394.222	$16.781 \ 0.013$	i	1m0-13
2013-04-15	2456398.222	$17.196 \ 0.029$	r	1m0-13	2013-04-12	2456394.516	$16.798 \ 0.012$	i	1m0-09
2013-04-18	2456400.524	$17.262\ 0.012$	r	1m0-09	2013-04-13	2456395.512	$16.823\ 0.013$	i	1m0-09
2013-04-18	2456400.527	$17.275 \ 0.014$	r	1m0-09	2013-04-13	2456395.513	$16.793 \ 0.011$	i	1m0-09
2013-04-20	2456402.523	$17.306 \ 0.015$	r	1m0-09	2013-04-15	2456397.513	$16.723\ 0.014$	i	1m0-09
2013-04-20	2456402.526	$17.286\ 0.013$	r	1m0-09	2013-04-15	2456397.514	$16.819\ 0.012$	i	1m0-09
2013-04-22	2456404.524	$17.337 \ 0.017$	r	1m0-09	2013-04-15	2456398.223	$16.765 \ 0.015$	i	1m0-13
2013-04-22	2456404.527	$17.349 \ 0.029$	r	1m0-09	2013-04-15	2456398.225	$16.847 \ 0.009$	i	1m0-13
2013-04-23	2456405.523	$17.346\ 0.017$	r	1m0-09	2013-04-18	2456400.529	$16.826\ 0.011$	i	1m0-09
2013-04-23	2456405.526	$17.324\ 0.013$	r	1m0-09	2013-04-18	2456400.532	$16.900 \ 0.012$	i	1m0-09
2013-04-24	2456407.489	$17.421\ 0.031$	r	1m0-05	2013-04-20	2456402.528	$16.901 \ 0.014$	i	1m0-09
2013-04-24	2456407.491	$17.402\ 0.024$	r	1m0-05	2013-04-20	2456402.531	$16.925 \ 0.010$	i	1m0-09
2013-04-28	2456411.490	$17.452\ 0.029$	r	1m0-09	2013-04-22	2456404.530	$16.910\ 0.014$	i	1m0-09
2013-04-28	2456411.492	$17.409 \ 0.026$	r	1m0-09	2013-04-22	2456404.532	$16.936 \ 0.012$	i	1m0-09
2013-04-29	2456412.490	$17.423\ 0.018$	r	1m0-09	2013-04-23	2456405.528	$16.915 \ 0.012$	i	1m0-09
2013-04-29	2456412.492	$17.417\ 0.028$	r	1m0-09	2013-04-23	2456405.531	$17.025 \ 0.018$	i	1m0-09
2013-05-03	2456416.483	$17.536 \ 0.025$	r	1m0-05	2013-04-24	2456407.493	$16.997 \ 0.016$	i	1m0-05
2013-05-04	2456417.456	$17.586 \ 0.053$	r	1m0-09	2013-04-24	2456407.494	$17.026 \ 0.012$	i	1m0-05
2013-05-04	2456417.457	$17.609 \ 0.039$	r	1m0-09	2013-04-27	2456410.493	$16.964\ 0.021$	i	1m0-09
2013-05-06	2456419.455	$17.567 \ 0.025$	r	1m0-09	2013-04-27	2456410.495	$16.990 \ 0.020$	i	1m0-09
2013-05-06	2456419.457	$17.563\ 0.020$	r	1m0-09	2013-04-28	2456411.494	$17.029 \ 0.013$	i	1m0-09
2013-05-07	2456420.457	$17.659 \ 0.022$	r	1m0-09	2013-04-28	2456411.496	$17.045 \ 0.019$	i	1m0-09
2013-05-07	2456420.459	$17.535 \ 0.024$	r	1m0-09	2013-04-29	2456412.494	$17.049 \ 0.013$	i	1m0-09
2013-05-08	2456421.456	$17.736\ 0.035$	r	1m0-09	2013-04-29	2456412.497	$17.066 \ 0.016$	i	1m0-09
2013-05-08	2456421.458	$17.650\ 0.038$	r	1m0-09	2013-05-03	2456416.488	$17.131\ 0.014$	i	1m0-05
2013-05-09	2456422.483	$17.613\ 0.016$	r	1m0-05	2013-05-03	2456416.490	$17.134\ 0.012$	i	1m0-05
2013-05-09	2456422.485	$17.765 \ 0.045$	r	1m0-05	2013-05-04	2456417.459	$17.092\ 0.014$	i	1m0-09
2013-05-10	2456423.457	$17.600\ 0.036$	r	1m0-09	2013-05-04	2456417.461	$17.115 \ 0.021$	i	1m0-09
2013-05-10	2456423.459	$17.708 \ 0.057$	r	1m0-09	2013-05-06	2456419.458	$17.174\ 0.021$	i	1m0-09
2013-05-14	2456427.455	$17.632\ 0.066$	r	1m0-09	2013-05-06	2456419.460	$17.167 \ 0.013$	i	1m0-09
2013-05-14	2456427.457	$17.664\ 0.041$	r	1m0-09	2013-05-07	2456420.461	$17.192\ 0.014$	i	1m0-09
2013-03-05	2456356.572	$16.932\ 0.015$	i	1m0-04	2013-05-07	2456420.462	$17.189\ 0.018$	i	1m0-09
2013-03-06	2456357.572	$16.805 \ 0.009$	i	1m0-04	2013-05-08	2456421.459	$17.213\ 0.024$	i	1m0-09
2013-03-14	2456365.613	$16.585 \ 0.010$	i	1m0-09	2013-05-08	2456421.461	$17.283\ 0.018$	i	1m0-09
2013-03-15	2456366.613	$16.615 \ 0.009$	i	1m0-09	2013-05-09	2456422.487	$17.244\ 0.017$	i	1m0-05
2013-03-16	2456367.614	$16.599\ 0.011$	i	1m0-09	2013-05-09	2456422.488	$17.271\ 0.023$	i	1m0-05
2013-03-29	2456380.578	$16.603 \ 0.009$	i	1m0-09	2013-05-10	2456423.461	$17.242\ 0.017$	i	1m0-09
2013-03-29	2456380.579	$16.627\ 0.011$	i	1m0-09	2013-05-10	2456423.463	$17.170\ 0.015$	i	1m0-09
2013-04-03	2456385.513	$16.788 \ 0.013$	i	1m0-09	2013-05-14	2456427.459	$17.294\ 0.015$	i	1m0-09

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2014dw: Photometric Data

	10 2014dw. 1 110		700	(b)			(a)	700	(b)
Date 2014-11-10	JD 2456972.225	$mag^{(a)}$ 16.480 0.025	Filter B	telescope ^(b) 1 m 0 - 11	Date 2014-11-10	JD 2456972.236	$mag^{(a)}$ 16.069 0.015	Filter	telescope $^{(b)}$ 1m0-11
								g	
2014-11-10	2456972.227	16.497 0.026	B	1m0-11	2014-11-12	2456974.228	16.220 0.014	g	1m0-11
2014-11-12	2456974.219	16.658 0.020	$B \\ B$	1m0-11	2014-11-12	2456974.231	16.185 0.014	g	1m0-11
2014-11-12	2456974.222	16.600 0.020		1m0-11	2014-11-14	2456975.569	16.342 0.016	g	1m0-10
2014-11-14	2456975.569	16.711 0.022	B	1m0-12	2014-11-14	2456975.572	16.336 0.015	g	1m0-10
2014-11-14	2456975.569	16.759 0.016	B	1m0-13	2014-11-14	2456975.578	16.352 0.014	g	1m0-12
2014-11-14	2456975.572	16.721 0.024	B	1m0-12	2014-11-14	2456975.580	16.349 0.014	g	1m0-12
2014-11-14	2456975.572	16.770 0.018	B	1m0-13	2014-11-16	2456978.216	16.453 0.017	g	1m0-11
2014-11-16	2456978.219	16.922 0.022	B	1m0-03	2014-11-16	2456978.218	16.462 0.017	g	1m0-11
2014-11-16	2456978.221	16.797 0.021	B	1m0-03	2014-11-18	2456979.559	16.541 0.014	g	1m0-12
2014-11-18	2456979.559	16.932 0.020	B	1m0-10	2014-11-18	2456979.561	16.530 0.014	g	1m0-12
2014-11-18	2456979.562	16.973 0.021	B	1m0-10	2014-11-20	2456981.577	16.628 0.020	g	1m0-12
2014-11-20	2456981.553	17.118 0.019	B	1m0-12	2014-11-20	2456981.579	16.769 0.039	g	1m0-12
2014-11-20	2456981.555	17.162 0.026	B	1m0-12	2014-11-22	2456983.549	16.716 0.026	g	1m0-12
2014-11-22	2456983.549	17.181 0.025	B	1m0-10	2014-11-25	2456986.793	16.915 0.017	g	1m0-05
2014-11-22	2456983.552	17.184 0.023	B	1m0-10	2014-11-25	2456986.795	16.962 0.025	g	1m0-05
2014-11-24	2456985.818	17.423 0.016	B	1m0-05	2014-11-27	2456988.561	16.988 0.021	g	1m0-12
2014-11-24	2456985.821	17.412 0.017	B	1m0-05	2014-11-27	2456988.564	16.955 0.021	g	1m0-12
2014-11-24	2456985.843	17.429 0.018	B	1m0-05	2014-11-28	2456990.184	17.059 0.021	g	1m0-03
2014-11-24	2456985.846	17.408 0.016	B	1m0-05	2014-11-28	2456990.187	17.042 0.020	g	1m0-03
2014-11-25	2456986.827	17.549 0.018	B	1m0-05	2014-12-04	2456996.189	17.265 0.039	g	1m0-11
2014-11-25	2456986.829	17.533 0.018	B	1m0-05	2014-12-04	2456996.191	17.209 0.031	g	1m0-11
2014-11-27	2456988.555	17.529 0.030	B	1m0-12	2014-12-09	2457000.787	17.416 0.031	g	1m0-05
2014-11-28	2456990.175	17.619 0.045	B	1m0-03	2014-12-09	2457000.789	17.459 0.017	g	1m0-05
2014-11-28	2456990.178	17.609 0.039	B	1m0-03	2014-12-14	2457005.512	17.587 0.027	g	1m0-12
2014-12-04	2456996.180	17.932 0.098	B	1m0-11	2014-12-14	2457005.515	17.538 0.025	g	1m0-12
2014-12-04	2456996.183	17.959 0.103	B	1m0-11	2014-12-15	2457007.138	17.562 0.019	g	1m0-11
2014-12-09	2457000.778	18.247 0.026	B	1m0-05	2014-12-15	2457007.140	17.553 0.022	g	1m0-11
2014-12-09	2457000.781	18.250 0.022	B	1m0-05	2014-12-20	2457012.124	17.812 0.026	g	1m0-11
2014-12-14	2457005.504	18.343 0.033	B	1m0-12	2014-12-20	2457012.126	17.677 0.026	g	1m0-11
2014-12-14	2457005.506	18.400 0.028	$B \\ B$	1m0-12 1m0-11	2014-12-25 2014-12-25	2457017.472	18.026 0.026	g	1m0-10 1m0-10
2014-12-15	2457007.129	18.469 0.068	B			2457017.475	18.216 0.050	g	1 m0-10 1 m0-05
2014-12-15 2014-12-20	2457007.132	18.376 0.049	B	1m0-11	2014-12-30 2014-12-30	2457021.839	18.149 0.019	g	
	2457012.115	18.610 0.061	B	1m0-11 1m0-11		2457021.841	18.155 0.021	g	1m0-05 1m0-10
2014-12-20	2457012.118	18.579 0.077	$\stackrel{B}{B}$		2015-01-04	2457026.546	18.217 0.045	g	
2014-12-25	2457017.464	18.907 0.044	B	1m0-10 1m0-05	2015-01-04	2457026.549	18.266 0.064	g	1m0-10 1m0-12
2014-12-30 2014-12-30	2457021.830	19.059 0.039	B	1m0-05 1m0-05	2015-01-13 2015-01-13	2457036.462	$18.720 \ 0.070$ $18.600 \ 0.057$	g	1m0-12 1m0-12
	2457021.833	19.043 0.040	$\stackrel{B}{B}$			2457036.464		g	
2015-01-04 2015-01-04	2457026.537 2457026.540	$19.377 \ 0.077$ $19.270 \ 0.112$	B	1m0-10 1m0-10	2015-01-18 2015-01-18	2457041.400 2457041.403	18.938 0.038 19.011 0.062	g	1m0-12 1m0-12
2015-01-04	2457020.340	19.808 0.146	B	1m0-10 1m0-12	2015-01-18	2457041.403	18.892 0.082	g	1m0-12 1m0-12
2015-01-18	2457041.392	19.809 0.185	B	1m0-12 1m0-12	2015-01-22	2457045.430	19.116 0.039	g	1m0-12 1m0-12
2015-01-18	2457041.394	20.272 0.124	B	1m0-12 1m0-12	2015-01-22	2457043.430	19.891 0.075	g	1m0-12 1m0-13
2015-01-22	2457045.417	20.272 0.124 20.068 0.145	B	1m0-12 1m0-12	2015-01-29	2457051.540	19.946 0.076	g	1m0-13 1m0-10
2015-01-22	2457045.417	20.812 0.393	B	1m0-12 1m0-13	2015-01-29	2457051.584	19.894 0.083	g	1m0-10 1m0-10
2015-01-29	2457051.527	20.924 0.184	B	1m0-13 1m0-13	2015-01-29	2457051.567	19.743 0.068	g	1m0-10 1m0-05
2015-01-29	2457051.550	21.235 0.246	B	1m0-13 1m0-10	2015-01-29	2457051.671	19.931 0.082	g	1m0-05
2015-01-29	2457051.574	20.835 0.167	B	1m0-10 1m0-10	2015-01-29	2457051.746	20.037 0.068	g	1m0-05
2015-01-29	2457051.654	20.926 0.175	B	1m0-10 1m0-05	2015-01-29	2457051.740	20.085 0.100	g	1m0-03 1m0-12
2015-01-29	2457051.658	20.979 0.227	B	1m0-05 1m0-05	2015-02-02	2457056.460	19.942 0.095	g	1m0-12 1m0-12
2015-01-29	2457051.658	20.867 0.193	$\stackrel{B}{B}$	1m0-05 1m0-05	2015-02-02	2457050.460	20.673 0.109	g	1m0-12 1m0-10
2015-01-29	2457051.729	20.899 0.221	B	1m0-05 1m0-05	2015-02-04	2457057.304	20.450 0.107	g	1m0-10 1m0-12
2015-01-29	2457051.755	21.415 0.144	$\stackrel{B}{B}$	1m0-05 1m0-12	2015-02-07	2457061.461	20.450 0.107	g	1m0-12 1m0-12
2015-02-02	2457056.445	21.419 0.144 21.429 0.167	B	1m0-12 1m0-12	2015-02-07	2457061.405	20.463 0.087	g	2m0
2015-02-02	2457050.447	21.716 0.234	$\stackrel{B}{B}$	1m0-12 1m0-12	2015-02-12	2457073.013	20.862 0.109	g	2m0 2 m0
2015-02-07	2457061.432	21.710 0.234 21.519 0.221	B	2m0	2013-02-19	2456972.230	15.950 0.020	V = V	1m0-11
2015-02-12	2457065.985	21.707 0.277	B	2 m0 $2 m0$	2014-11-10	2456972.232	16.000 0.019	V V	1m0-11 1m0-11
2015-02-12	2457065.987 2457069.927	21.707 0.277 21.905 0.313	B	2m0 $2m0$	2014-11-10	2456972.232 2456974.225	16.000 0.019	V V	1m0-11 1m0-11
2013-02-10	2456969.597	16.178 0.016		1m0-12	2014-11-12	2456974.226	16.036 0.021	V = V	1m0-11 1m0-11
2014-11-08	2456972.233	16.117 0.015	g	1m0-12 1m0-11	2014-11-12	2456975.574	16.094 0.021	V V	1m0-11 1m0-12
2014-11-10	4±00014.400	10.111 0.010	g	11110-11	2014-11-14	2400010.014	10.004 0.041	v	11110-14

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2014dw: Photometric Data

2014-11-14 2466975.576 16.152 0.021 V 1m-0-13 2015-02-12 245706.5993 20.456 0.115 V 2m0 2014-11-14 2466975.576 16.099 0.020 V 1m-0-13 2015-02-27 245708.588 20.614 0.245 V 2m0 2014-11-16 2466978.524 16.055 0.021 V 1m-0-13 2014-11-16 2456978.526 16.036 0.021 V 1m-0-10 2014-11-16 2456978.526 16.036 0.021 V 1m-0-10 2014-11-10 2456978.526 16.036 0.021 V 1m-0-10 2014-11-10 2456972.536 5.991 0.018 r 1m-0-12 2014-11-12 2456978.556 16.250 0.022 V 1m-0-12 2014-11-12 2456972.246 5.892 0.017 r 1m-0-11 2014-11-12 2456985.555 16.025 0.019 V 1m-0-10 2014-11-12 2456974.235 5.991 0.018 r 1m-0-11 2014-11-12 2456985.554 16.155 0.019 V 1m-0-10 2014-11-14 2456975.576 5.997 0.019 r 1m-0-11 2014-11-12 2456985.838 16.375 0.022 V 1m-0-10 2014-11-14 2456975.576 5.997 0.019 r 1m-0-12 2014-11-12 2456985.838 16.375 0.022 V 1m-0-10 2014-11-14 2456975.581 5.997 0.016 r 1m-0-12 2014-11-12 2456985.848 16.444 0.021 V 1m-0-15 2014-11-14 2456975.584 5.996 0.016 r 1m-0-12 2014-11-12 2466985.850 16.389 0.022 V 1m-0-15 2014-11-14 2456995.585 15.996 0.016 r 1m-0-12 2014-11-12 2466985.850 16.350 0.021 V 1m-0-15 2014-11-14 2456995.584 15.996 0.016 r 1m-0-12 2014-11-12 2466985.585 16.037 0.022 V 1m-0-15 2014-11-14 2456995.584 15.996 0.016 r 1m-0-12 2014-11-12 2466985.585 16.350 0.021 V 1m-0-15 2014-11-14 2466995.855 16.035 0.021 V 1m-0-15 2014-11-14 2466995.584 16.035 0.016 r 1m-0-12 2014-11-12 2466985.585 16.035 0.022 V 1m-0-15 2014-11-15 2466985.585 16.035 0.022 V 1m-0-15 2014-11-14 2466995.585 15.996 0.016 r 1m-0-12 2014-11-12 2466985.585 16.035 0.022 V 1m-0-15 2014-11-15 2466995.585 15.996 0.016 r 1m-0-12 2014-11-12 2466985.585 16.035 0.022 r 1m-0-15 2014-11-15 2466985.585 16.035 0.022 r	Table D1: SI	N 2014dw: Phot	tometric Data							
2014-11-14 2456975.576 16.073 0.021 V 1.00-13 2015-02-16 2457069.393 20.459 0.119 V 2.00 2014-11-16 2456978.224 16.045 0.021 V 1.00-03 2014-11-16 2456978.225 15.937 0.024 r 1.00-12 2014-11-18 2456978.505 16.153 0.019 V 1.00-03 2014-11-18 2456978.256 15.937 0.024 r 1.00-12 2014-11-19 245698.555 16.226 0.024 V 1.00-12 2014-11-12 2456978.255 15.901 0.018 r 1.00-11 2014-11-12 245698.555 16.226 0.024 V 1.00-12 2014-11-12 2456974.233 15.922 0.016 r 1.00-11 2014-11-12 245698.555 16.155 0.019 V 1.00-10 2014-11-12 2456974.233 15.925 0.016 r 1.00-11 2014-11-12 245698.555 16.155 0.019 V 1.00-10 2014-11-12 2456975.575 15.947 0.015 r 1.00-11 2014-11-12 245698.555 16.371 0.022 V 1.00-05 2014-11-14 2456975.575 15.947 0.015 r 1.00-10 2014-11-12 245698.558 16.340 0.019 V 1.00-05 2014-11-14 2456975.583 15.975 0.016 r 1.00-12 2014-11-12 245698.5585 16.347 0.039 V 1.00-05 2014-11-14 2456975.583 15.975 0.016 r 1.00-12 2014-11-12 245698.5585 16.347 0.039 V 1.00-05 2014-11-14 2456975.583 15.975 0.016 r 1.00-12 2014-11-12 245698.5585 16.347 0.039 V 1.00-05 2014-11-14 2456975.583 15.975 0.016 r 1.00-12 2014-11-12 245698.5585 16.347 0.039 V 1.00-05 2014-11-14 2456975.583 15.975 0.016 r 1.00-12 2014-11-12 245698.585 16.347 0.039 V 1.00-05 2014-11-14 2456995.585 16.015 0.016 r 1.00-12 2014-11-12 245698.585 16.349 0.039 V 1.00-05 2014-11-14 2456995.585 16.015 0.016 r 1.00-12 2014-11-12 2456995.585 16.015 0.016	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-11-14 2456975.576 6.099 0.020 V 1.00-03 2014-11-08 245698.0898 20.614 0.245 V 2.000 2014-11-16 2466978.226 6.036 0.021 V 1.00-03 2014-11-08 245698.091 5.916 0.021 r 1.00-12 2014-11-10 2456978.256 6.036 0.021 V 1.00-10 2014-11-10 2456972.40 15.981 0.021 r 1.00-12 2014-11-12 245698.558 6.221 0.026 V 1.00-12 2014-11-12 2456972.40 15.882 0.017 r 1.00-11 2014-11-12 2456985.555 6.155 0.019 V 1.00-10 2014-11-12 2456974.235 15.945 0.015 r 1.00-11 2014-11-12 2456985.555 6.155 0.019 V 1.00-10 2014-11-14 2456975.575 15.947 0.015 r 1.00-11 2014-11-12 2456985.848 6.345 0.022 V 1.00-05 2014-11-14 2456975.575 15.947 0.015 r 1.00-12 2014-11-12 2456985.848 6.345 0.022 V 1.00-05 2014-11-14 2456975.581 15.947 0.015 r 1.00-12 2014-11-12 2456985.848 6.348 0.021 V 1.00-05 2014-11-14 2456975.581 15.947 0.016 r 1.00-12 2014-11-12 2456985.848 6.441 0.021 V 1.00-05 2014-11-14 2456975.584 15.945 0.016 r 1.00-12 2014-11-12 24569885.585 6.530 0.024 V 1.00-05 2014-11-14 2456975.584 15.945 0.016 r 1.00-12 2014-11-12 246698.685 6.635 0.024 V 1.00-05 2014-11-14 2456975.584 15.945 0.016 r 1.00-12 2014-11-12 246698.685 6.635 0.024 V 1.00-05 2014-11-14 2456995.584 15.946 0.016 r 1.00-12 2014-11-12 246698.918 6.635 0.024 V 1.00-12 2014-11-12 246698.918 15.946 0.016 r 1.00-12 2014-11-12 246698.918 6.635 0.024 V 1.00-12 2014-11-12 245698.918 10.000 0.017 1.00-12 2014-11-12 246698.918 6.646 0.041 V 1.00-13 2014-12-12 245698.918 10.000 0.017 1.00-12 2014-12-12 2456096.918 6.646 0.041 V 1.00-13 2014-12-12 245698.918 10.000 0.017 1.00-12 2014-12-12 245700.550 1.00-13 2014-12-13 245700.550 1.00-13 2014-12-13 245700.550 1.00-13 2014-12-13 245700.550 1.00-13 2014-12-13 245700.550 1.00-13 2014	2014-11-14	2456975.575	16.152 0.021	V	1m0-13	2015-02-12	2457065.993	20.426 0.115	V	2m0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2014-11-14	2456975.576	$16.073 \ 0.021$	V	1m0-12	2015-02-16	2457069.930	$20.459\ 0.119$	V	2m0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2014-11-14	2456975.576	$16.090\ 0.020$	V	1m0-13	2015-02-27	2457080.898	$20.614\ 0.245$	V	2m0
2014-11-18 2456975-566 16.153 0.19	2014-11-16	2456978.224	$16.045 \ 0.021$	V	1m0-03	2014-11-08	2456969.599	$15.937 \ 0.024$	r	1m0-12
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2014-11-16	2456978.226	$16.036 \ 0.021$		1m0-03	2014-11-08	2456969.601	$15.916\ 0.021$	r	1m0-12
2014-11-20 2456981.559 16.226 0.024 V mol-10 2014-11-12 2456974.233 15.922 0.016 r mol-11 2014-11-22 245698.556 16.155 0.012 V mol-05 2014-11-14 2456975.757 15.947 0.015 r mol-10 2014-11-15 2456985.848 16.348 0.019 V mol-05 2014-11-14 2456975.858 15.970 0.016 r mol-12 2014-11-25 2456986.832 16.398 0.028 V mol-05 2014-11-18 2456975.848 15.975 0.016 r mol-12 2014-11-27 2456986.852 16.347 0.039 V mol-05 2014-11-18 2456975.848 15.975 0.016 r mol-12 2014-11-27 2456988.565 16.447 0.039 V mol-12 2014-11-18 2456979.566 16.155 0.016 r mol-12 2014-11-27 2456988.565 16.456 0.028 V mol-12 2014-11-18 2456975.568 16.174 0.029 r mol-12 2014-12-20 2456986.187 16.646 0.035 V mol-03 2014-11-12 2456985.355 16.020 0.018 r mol-12 2014-12-20 2456986.187 16.646 0.035 V mol-13 2014-11-22 2456985.355 16.020 0.018 r mol-12 2014-12-20 2456986.187 16.646 0.035 V mol-15 2014-11-22 2456986.888 0.168 0.036 V mol-15 2014-11-25 2456986.888 0.168 0.024 V mol-15 2014-11-25 2456986.898 16.102 0.024 r mol-16 2014-12-20 245700.758 16.818 0.024 V mol-15 2014-11-25 2456986.898 16.102 0.024 r mol-16 2014-12-20 245700.510 16.936 0.028 V mol-12 2014-12-20 245700.510 16.936 0.038 V mol-12 2014-12-20 245700.510 16.936 0.039 V mol-12 2014-12-20 245700.5	2014-11-18	2456979.566	$16.153 \ 0.019$	V	1m0-10	2014-11-10	2456972.239	$15.901\ 0.018$	r	1m0-11
2014-11-22 2456983.554 16.155 0.019 V Im0-10 2014-11-12 2456975.575 15.947 0.015 r Im0-10 2014-11-24 245695.823 16.371 0.022 V Im0-05 2014-11-14 2456975.575 15.970 0.019 r Im0-10 2014-11-24 245695.835 16.387 0.022 V Im0-05 2014-11-14 2456975.576 15.970 0.019 r Im0-12 2014-11-24 245695.835 16.385 0.021 V Im0-05 2014-11-14 2456975.583 15.975 0.016 r Im0-12 2014-11-25 245698.834 16.411 0.021 V Im0-05 2014-11-18 2456975.584 15.975 0.016 r Im0-12 2014-11-27 245698.835 16.387 0.039 V Im0-15 2014-11-18 2456975.584 15.975 0.016 r Im0-12 2014-11-27 2456988.585 16.387 0.039 V Im0-12 2014-11-8 2456975.584 15.965 0.016 r Im0-12 2014-11-28 245699.855 16.317 0.039 V Im0-12 2014-11-8 2456975.584 15.965 0.016 r Im0-12 2014-11-28 245699.815 16.587 0.028 V Im0-03 2014-11-29 2456981.582 16.174 0.029 r Im0-12 2014-11-29 245699.6185 16.646 0.035 V Im0-03 2014-11-22 245698.555 16.030 0.017 r Im0-12 2014-12-09 245699.6185 16.646 0.035 V Im0-05 2014-11-25 245698.650 16.183 0.016 r Im0-05 2014-12-09 2457000.785 16.818 0.028 V Im0-05 2014-11-25 245698.650 16.183 0.016 r Im0-05 2014-12-14 2457005.509 16.918 0.028 V Im0-15 2014-11-29 245699.019 16.273 0.023 r Im0-05 2014-12-15 2457007.134 16.994 0.030 V Im0-16 2014-12-10 245699.019 16.273 0.023 r Im0-05 2014-12-15 2457007.134 16.994 0.030 V Im0-17 2014-12-10 245699.019 16.273 0.023 r Im0-05 2014-12-20 2457012.138 17.748 0.002 V Im0-10 2014-12-10 245699.019 16.273 0.023 r Im0-11 2014-12-12 2457005.510 16.996 0.030 V Im0-11 2014-12-10 245699.019 16.273 0.023 r Im0-11 2014-12-12 2457005.510 16.996 0.030 V Im0-12 2014-12-10 2457005.518 16.996 0.030 V Im0-12 2014-12-13 2457005.618 17.996 0.025 V Im0-15 2014-12-15 2457007.138	2014-11-20	2456981.558	$16.221\ 0.026$	V	1m0-12	2014-11-10	2456972.240	$15.882\ 0.017$	r	1m0-11
2014-11-24 2456985.856 16.195 0.022 V 1m0-05 2014-11-14 2456975.576 15.997 0.019 r 1m0-10 2014-11-24 2456985.848 16.348 0.019 V 1m0-05 2014-11-14 2456975.583 15.970 0.016 r 1m0-12 2014-11-25 2456986.832 16.386 0.028 V 1m0-05 2014-11-14 2456975.834 15.975 0.016 r 1m0-12 2014-11-25 2456986.832 16.386 0.028 V 1m0-05 2014-11-16 2456975.834 15.975 0.016 r 1m0-12 2014-11-27 2456988.858 16.347 0.039 V 1m0-05 2014-11-18 2456979.664 15.986 0.016 r 1m0-12 2014-11-27 2456988.858 16.347 0.039 V 1m0-12 2014-11-18 2456979.664 15.986 0.016 r 1m0-12 2014-11-28 2456990.181 16.575 0.028 V 1m0-03 2014-11-20 245698.182 16.035 0.016 r 1m0-12 2014-11-28 2456990.181 16.575 0.028 V 1m0-03 2014-11-20 245698.1834 16.030 0.017 r 1m0-12 2014-12-20 2456996.185 16.646 0.014 V 1m0-03 2014-11-22 245698.555 16.020 0.018 r 1m0-12 2014-12-20 2456996.185 16.646 0.035 V 1m0-13 2014-11-22 2456985.555 16.020 0.018 r 1m0-12 2014-12-20 2457000.785 16.818 0.024 V 1m0-05 2014-11-22 2456985.855 16.020 0.018 r 1m0-05 2014-12-14 2457005.510 16.930 0.028 V 1m0-12 2014-11-23 245699.189 16.238 0.016 r 1m0-05 2014-12-14 2457005.510 16.930 0.028 V 1m0-12 2014-11-24 245699.199 16.239 0.023 r 1m0-03 2014-12-14 2457005.510 16.930 0.028 V 1m0-12 2014-12-04 245699.199 16.239 0.023 r 1m0-03 2014-12-15 2457007.136 16.939 0.030 V 1m0-11 2014-12-09 2457000.792 16.457 0.023 r 1m0-05 2014-12-20 2457012.122 17.064 0.027 V 1m0-11 2014-12-14 2457005.510 16.090 0.018 r 1m0-12 2014-12-20 2457012.132 17.906 0.024 V 1m0-10 2014-12-14 2457005.510 16.090 0.018 r 1m0-12 2014-12-20 2457012.132 17.906 0.025 V 1m0-10 2014-12-15 2457007.134 16.690 0.027 r 1m0-12 2014-12-20 2457013.818 17.349 0.038 V 1m0-10 2014-12-15 2	2014-11-20	2456981.559	$16.226\ 0.024$		1m0-12	2014-11-12	2456974.233	$15.922\ 0.016$	r	1m0-11
2014-11-24 2456985.823 16.371 0.022 V 1m0-05 2014-11-14 2456975.576 15.970 0.016 r 1m0-12 2014-11-24 2456985.835 16.388 0.021 V 1m0-05 2014-11-14 2456975.834 15.975 0.016 r 1m0-12 2014-11-25 2456986.834 16.411 0.021 V 1m0-05 2014-11-18 2456975.684 15.975 0.016 r 1m0-12 2014-11-27 2456986.834 16.411 0.021 V 1m0-05 2014-11-18 2456975.684 15.986 0.015 r 1m0-12 2014-11-27 2456985.855 16.377 0.039 V 1m0-12 2014-11-18 2456975.684 15.986 0.015 r 1m0-12 2014-11-28 2456990.015 r 1m0-12 2014-11-29 2456981.852 16.174 0.029 r 1m0-12 2014-11-28 2456990.015 16.592 0.024 V 1m0-03 2014-11-29 2456985.555 16.030 0.017 r 1m0-12 2014-12-29 2456996.185 16.646 0.035 V 1m0-03 2014-11-22 2456985.555 16.030 0.018 r 1m0-12 2014-12-29 2456996.185 16.646 0.035 V 1m0-05 2014-11-25 2456986.890 16.988 0.026 V 1m0-05 2014-11-25 2456986.890 16.183 0.016 r 1m0-05 2014-12-12 2456996.185 16.818 0.028 V 1m0-05 2014-11-25 2456986.890 16.183 0.016 r 1m0-05 2014-12-12 2456996.185 16.996 0.030 V 1m0-12 2014-11-22 2456996.195 16.294 0.021 r 1m0-03 2014-12-12 2457007.134 16.994 0.024 V 1m0-11 2014-11-24 2456996.195 16.294 0.021 r 1m0-05 2014-12-12 2457007.134 16.994 0.024 V 1m0-11 2014-12-12 2456996.195 16.294 0.021 r 1m0-05 2014-12-12 2457007.134 16.994 0.024 V 1m0-11 2014-12-12 2457007.134 16.994 0.024 V 1m0-11 2014-12-14 2457005.510 16.996 0.030 V 1m0-11 2014-12-14 2457005.510 16.996 0.030 V 1m0-12 2014-12-14 2457005.510 16.996 0.030 V 1m0-12 2014-12-14 2457005.510 16.996 0.030 V 1m0-12 2014-12-15 2457017.478 17.996 0.025 V 1m0-10 2014-12-15 2457017.478 17.996 0.025 V 1m0-10 2014-12-15 2457017.489 17.996 0.025 V 1m0-10 2014-12-15 2457017.489 17.996 0.025 V 1m0-10 2014-12-15 2457017.489	2014-11-22	2456983.554	$16.155 \ 0.019$	V	1m0-10	2014-11-12	2456974.235	$15.945 \ 0.015$	r	1m0-11
2014-11-24 2456985.848 16.348 0.019 V 1m0-05 2014-11-14 2456975.558 15.5770 0.016 r 1m0-12 2014-11-25 2456986.832 16.388 0.028 V 1m0-05 2014-11-16 2456975.523 15.966 0.016 r 1m0-12 2014-11-27 2456986.834 16.441 0.021 V 1m0-05 2014-11-18 2456979.504 15.986 0.016 r 1m0-12 2014-11-27 2456988.568 16.453 0.024 V 1m0-12 2014-11-18 2456979.506 16.0016 r 1m0-12 2014-11-18 245699.506 16.0016 r 1m0-12 2014-11-18 245699.506 16.0016 r 1m0-12 2014-11-12 2456988.506 16.578 0.028 V 1m0-03 2014-11-20 2456981.884 16.030 0.017 r 1m0-12 2014-11-20 245699.185 16.666 0.014 V 1m0-03 2014-11-22 245698.505 16.0030 0.017 r 1m0-12 2014-12-04 2456999.187 16.646 0.041 V 1m0-14 2014-11-25 245698.505 16.986 0.016 r 1m0-12 2014-12-04 2456996.187 16.646 0.045 V 1m0-05 2014-12-04 245700.705 16.188 0.026 V 1m0-05 2014-11-25 2456998.505 16.986 0.026 V 1m0-05 2014-12-04 245700.505 16.918 0.028 V 1m0-05 2014-11-25 245699.805 16.380.016 r 1m0-05 2014-12-14 245700.5510 16.938 0.028 V 1m0-12 2014-12-24 245700.5510 16.938 0.028 V 1m0-12 2014-12-25 2457001.316 16.924 0.024 V 1m0-15 2014-12-25 2457001.316 16.924 0.024 V 1m0-15 2014-12-26 2457001.316 16.924 0.025 V 1m0-15 2014-12-26 245700.518 16.494 0.009 r 1m0-15 2014-12-26 2457001.316 16.924 0.024 V 1m0-15 2014-12-26 245700.518 16.494 0.009 r 1m0-15 2014-12-26 2457001.316 16.924 0.024 V 1m0-15 2014-12-26 245700.518 16.494 0.009 r 1m0-15 2014-12-26 2457001.316 17.496 0	2014-11-22	2456983.556	$16.195 \ 0.022$		1m0-10	2014-11-14	2456975.575	$15.947 \ 0.015$	r	1m0-10
2014-11-24 2456985.850 16.388 0.021 V 1m0-05 2014-11-16 2456978.523 15.976 0.016 r 1m0-12 2014-11-12 2456988.834 16.441 0.021 V 1m0-05 2014-11-18 2456979.826 15.986 0.016 r 1m0-12 2014-11-12 2456988.834 16.447 0.039 V 1m0-12 2014-11-18 2456979.566 16.015 0.016 r 1m0-12 2014-11-12 2456988.836 16.453 0.024 V 1m0-12 2014-11-12 2456988.836 16.592 0.024 V 1m0-03 2014-11-20 2456981.852 16.030 0.017 r 1m0-12 2014-11-20 2456998.1555 16.666 0.035 V 1m0-03 2014-11-22 2456988.355 16.020 0.018 r 1m0-12 2014-12-04 2456996.155 16.666 0.035 V 1m0-03 2014-11-22 2456988.355 16.020 0.018 r 1m0-12 2014-12-04 2456996.155 16.666 0.035 V 1m0-05 2014-12-05 2456996.8798 16.030 0.017 r 1m0-12 2014-12-04 2456996.8798 16.030 0.017 r 1m0-12 2014-12-09 2457000.783 16.856 0.024 V 1m0-05 2014-11-25 2456996.8798 16.030 0.017 r 1m0-05 2014-12-09 2457000.590 16.986 0.028 V 1m0-05 2014-11-28 2456990.189 16.238 0.021 r 1m0-05 2014-12-14 2457005.500 16.993 0.028 V 1m0-12 2014-12-04 2456996.194 16.249 0.020 r 1m0-11 2014-12-15 2457007.134 16.924 0.024 V 1m0-11 2014-12-04 2456996.195 16.249 0.020 r 1m0-11 2014-12-15 2457007.136 16.996 0.030 V 1m0-11 2014-12-04 2456996.195 16.249 0.021 r 1m0-11 2014-12-15 2457007.136 16.996 0.030 V 1m0-11 2014-12-04 2456996.195 16.249 0.021 r 1m0-11 2014-12-15 2457007.136 16.996 0.030 V 1m0-12 2014-12-04 2456996.195 16.0570 0.020 r 1m0-11 2014-12-15 2457007.136 16.996 0.036 V 1m0-12 2014-12-04 2456996.195 16.0570 0.020 r 1m0-11 2014-12-15 2457007.136 16.996 0.036 V 1m0-12 2014-12-15 245700.0794 16.1570 0.020 r 1m0-11 2014-12-15 245700.0794 16.1570 0.020 r 1m0-11 2014-12-15 245700.0794 16.040 0.020 r 1m0-12 2014-12-25 245700.1374 16.050 0.018 r 1m0-12 2	2014-11-24	2456985.823	$16.371\ 0.022$		1m0-05	2014-11-14	2456975.576	$15.970\ 0.019$	r	1m0-10
2014-11-25 2456988.832 16.388 0.028 V 1m0-05 2014-11-16 2456978.524 15.596 0.016 r 1m0-12 2014-11-27 2456988.558 16.347 0.039 V 1m0-12 2014-11-18 2456979.556 16.015 0.016 r 1m0-12 2014-11-27 2456988.558 16.347 0.039 V 1m0-12 2014-11-18 2456979.556 16.015 0.016 r 1m0-12 2014-11-27 2456988.558 16.590.024 V 1m0-03 2014-11-20 2456981.582 16.74 0.029 r 1m0-12 2014-11-28 2456998.555 16.020 0.018 r 1m0-12 2014-11-28 2456998.555 16.020 0.018 r 1m0-12 2014-12-14 2456998.555 16.020 0.018 r 1m0-12 2014-12-14 2456996.555 16.020 0.018 r 1m0-12 2014-12-14 245700.755 16.818 0.026 V 1m0-05 2014-11-25 2456986.800 16.188 0.016 r 1m0-05 2014-12-14 245700.5510 16.918 0.024 V 1m0-05 2014-11-28 2456990.191 16.238 0.021 r 1m0-03 2014-12-14 245700.5510 16.930 0.028 V 1m0-12 2014-12-15 2457007.136 16.924 0.024 V 1m0-11 2014-12-15 2457007.136 16.924 0.024 V 1m0-11 2014-12-15 2457007.136 16.924 0.024 V 1m0-11 2014-12-16 245700.736 16.918 0.025 V 1m0-12 2014-12-16 245700.736 16.918 0.025 V 1m0-12 2014-12-16 245700.736 16.418 0.027 V 1m0-12 2014-12-16 245700.736	2014-11-24	2456985.848	$16.348 \ 0.019$		1m0-05	2014-11-14	2456975.583	$15.970\ 0.016$	r	1m0-12
2014-11-25	2014-11-24	2456985.850	$16.388 \ 0.021$		1m0-05	2014-11-14	2456975.584	$15.975 \ 0.016$	r	1m0-12
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2014-11-25	2456986.832	$16.398 \ 0.028$		1m0-05	2014-11-16	2456978.223	$15.966 \ 0.015$	r	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2014-11-25	2456986.834	$16.441 \ 0.021$		1m0-05	2014-11-18	2456979.564	$15.986 \ 0.016$	r	
2014-11-28 2456990.181 16.578 0.028 V 1m0-03 2014-11-20 2456981.584 16.030 0.017 r 1m0-12 2014-12-04 2456996.185 16.646 0.031 V 1m0-11 2014-11-25 2456983.556 15.985 0.018 r 1m0-12 2014-12-04 2456996.187 16.646 0.035 V 1m0-11 2014-11-25 2456988.798 16.122 0.024 r 1m0-05 2014-12-09 2457000.785 16.835 0.026 V 1m0-05 2014-11-26 2456998.189 16.283 0.021 r 1m0-05 2014-12-09 2457000.785 16.818 0.024 V 1m0-05 2014-11-28 2456999.189 16.238 0.021 r 1m0-03 2014-12-14 2457005.510 16.903 0.028 V 1m0-12 2014-11-28 2456999.189 16.238 0.021 r 1m0-03 2014-12-14 2457005.510 16.903 0.028 V 1m0-12 2014-12-04 2456996.194 16.249 0.020 r 1m0-11 2014-12-15 245707.136 16.996 0.030 V 1m0-11 2014-12-09 2457000.792 16.457 0.023 r 1m0-05 2014-12-20 2457012.121 17.127 0.031 V 1m0-11 2014-12-09 2457000.794 16.415 0.015 r 1m0-05 2014-12-25 2457017.469 17.190 0.025 V 1m0-10 2014-12-14 2457005.519 16.590 0.018 r 1m0-12 2014-12-23 2457012.835 17.349 0.034 V 1m0-05 2014-12-15 245707.134 16.924 0.024 V 1m0-10 2014-12-15 2457007.144 16.689 0.019 r 1m0-12 2014-12-25 2457017.469 17.190 0.025 V 1m0-10 2014-12-15 2457007.144 16.689 0.018 r 1m0-12 2014-12-25 2457017.475 17.266 0.024 V 1m0-05 2014-12-15 2457007.144 16.689 0.018 r 1m0-11 2014-12-13 2457036.460 17.840 0.013 V 1m0-15 2014-12-15 2457007.144 16.689 0.019 r 1m0-11 2014-12-15 2457007.144 16.689 0.019 r 1m0-11 2015-01-04 2457026.543 17.434 0.041 V 1m0-10 2014-12-15 2457017.478 16.759 0.017 r 1m0-11 2015-01-04 2457026.544 17.518 0.044 V 1m0-10 2014-12-15 2457017.478 16.759 0.017 r 1m0-10 2015-01-13 2457036.460 17.840 0.013 V 1m0-12 2015-01-04 2457056.541 17.518 0.048 V 1m0-12 2015-01-04 2457051.379 18.755 0.016 r 1m0-10 2015-01-12									r	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			$16.453 \ 0.024$		1m0-12			$16.174 \ 0.029$	r	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2014-11-28	2456990.181	$16.578 \ 0.028$		1m0-03	2014-11-20	2456981.584	$16.030 \ 0.017$	r	
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						2015-02-07				
$2015-02-09 2457062.520 20.119 \ 0.112 V \qquad 1\text{m0-12} \qquad 2015-02-10 2457064.257 19.180 \ 0.065 r \qquad 1\text{m0-03}$										
IIIO-12	2015-02-12	2457066.333	$20.252\ 0.142$	V	1m0-12	2015-02-12	2457066.354	$19.349\ 0.126$	r	1m0-12
$2015-02-12 2457066.337 19.956 \ 0.183 V \qquad 1 \text{m0-12} \qquad 2015-02-11 2457064.987 19.060 \ 0.080 r \qquad 2 \text{m0}$	2015-02-12	2457066.337	$19.956 \ 0.183$		1m0-12	2015-02-11	2457064.987	$19.060\ 0.080$	r	2m0
	2015-02-12	2457065.991	20.520 0.152	V	2m0	2015-02-11	2457064.990		r	2m0

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

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Table D1: SN 2014dw: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2015-02-12	2457066.004	19.193 0.057	r	2m0	2014-12-20	2457012.132	$16.456 \ 0.027$	i	1m0-11
2015-02-12	2457066.006	$19.141 \ 0.053$	r	2m0	2014-12-20	2457012.134	$16.492\ 0.026$	i	1m0-11
2015-02-16	2457069.937	$19.157 \ 0.043$	r	2m0	2014-12-25	2457017.482	$16.629\ 0.024$	i	1m0-10
2015-02-19	2457073.017	$19.555 \ 0.053$	r	2m0	2014-12-25	2457017.483	$16.648 \ 0.031$	i	1m0-10
2015-02-23	2457076.934	$19.298 \ 0.030$	r	2m0	2014-12-30	2457021.847	$16.764\ 0.024$	i	1m0-05
2015-03-15	2457096.945	$19.922\ 0.063$	r	2m0	2014-12-30	2457021.849	$16.758 \ 0.022$	i	1m0-05
2015-03-21	2457102.876	$20.221\ 0.074$	r	2m0	2015-01-04	2457026.555	$16.824\ 0.036$	i	1m0-10
2015-03-29	2457110.852	$20.515 \ 0.084$	r	2m0	2015-01-04	2457026.556	$16.783 \ 0.031$	i	1m0-10
2014-11-08	2456969.603	$15.972\ 0.035$	i	1m0-12	2015-01-08	2457031.481	$17.047 \ 0.044$	i	1m0-10
2014-11-08	2456969.604	$16.004 \ 0.042$	i	1m0-12	2015-01-13	2457036.470	$17.297 \ 0.084$	i	1m0-12
2014-11-10	2456972.242	$15.823\ 0.019$	i	1m0-11	2015-01-13	2457036.472	$17.164\ 0.075$	i	1m0-12
2014-11-10	2456972.243	$15.871 \ 0.019$	i	1m0-11	2015-01-18	2457041.409	$17.475 \ 0.060$	i	1m0-12
2014-11-12	2456974.237	$15.886 \ 0.022$	i	1m0-11	2015-01-18	2457041.410	$17.431 \ 0.051$	i	1m0-12
2014-11-12	2456974.238	$15.873 \ 0.023$	i	1m0-11	2015-01-22	2457045.439	$17.838 \ 0.096$	i	1m0-12
2014-11-14	2456975.578	$15.922\ 0.026$	i	1m0-10	2015-01-22	2457045.442	$17.525 \ 0.027$	i	1m0-12
2014-11-14	2456975.586	$15.950 \ 0.022$	i	1m0-12	2015-01-29	2457051.597	$18.418 \ 0.050$	i	1m0-10
2014-11-14	2456975.588	$15.943 \ 0.024$	i	1m0-12	2015-01-29	2457051.755	$18.440\ 0.053$	i	1m0-05
2014-11-16	2456978.224	$15.907 \ 0.018$	i	1m0-11	2015-01-29	2457051.757	$18.517 \ 0.037$	i	1m0-05
2014-11-16	2456978.226	$15.900 \ 0.019$	i	1m0-11	2015-02-02	2457056.469	$18.772\ 0.086$	i	1m0-12
2014-11-18	2456979.567	$15.995 \ 0.023$	i	1m0-12	2015-02-02	2457056.471	$18.842\ 0.129$	i	1m0-12
2014-11-18	2456979.569	$15.980\ 0.021$	i	1m0-12	2015-02-04	2457057.517	$18.988 \ 0.062$	i	1m0-10
2014-11-20	2456981.586	$15.988 \ 0.025$	i	1m0-12	2015-02-04	2457057.520	$18.907 \ 0.060$	i	1m0-10
2014-11-20	2456981.587	$15.988 \ 0.027$	i	1m0-12	2015-02-07	2457061.474	$19.068 \ 0.056$	i	1m0-12
2014-11-22	2456983.558	$15.955 \ 0.019$	i	1m0-12	2015-02-07	2457061.476	$18.924\ 0.070$	i	1m0-12
2014-11-22	2456983.559	$15.966 \ 0.021$	i	1m0-12	2015-02-10	2457064.261	$19.108 \ 0.137$	i	1m0-03
2014 - 11 - 25	2456986.801	$16.093 \ 0.027$	i	1m0-05	2015-02-12	2457066.358	$19.290 \ 0.149$	i	1m0-12
2014-11-25	2456986.803	$16.015 \ 0.025$	i	1m0-05	2015-02-12	2457066.362	$19.054 \ 0.142$	i	1m0-12
2014-11-28	2456990.192	$16.150 \ 0.030$	i	1m0-03	2015-02-11	2457064.992	$18.935 \ 0.071$	i	2m0
2014-11-28	2456990.194	$16.286 \ 0.031$	i	1m0-03	2015-02-12	2457066.009	$19.415 \ 0.054$	i	2m0
2014-12-04	2456996.197	$16.104 \ 0.027$	i	1m0-11	2015-02-12	2457066.011	$19.435 \ 0.054$	i	2m0
2014-12-04	2456996.199	$16.153 \ 0.025$	i	1m0-11	2015-02-16	2457069.940	$19.531 \ 0.058$	i	2m0
2014-12-09	2457000.795	$16.330\ 0.021$	i	1m0-05	2015-02-19	2457073.020	$19.805 \ 0.082$	i	2m0
2014-12-09	2457000.797	$16.319\ 0.021$	i	1m0-05	2015-02-23	2457076.936	$19.824\ 0.096$	i	2m0
2014-12-14	2457005.521	$16.368 \ 0.023$	i	1m0-12	2015-02-27	2457080.908	$19.875 \ 0.117$	i	2m0
2014-12-14	2457005.522	$16.386\ 0.024$	i	1m0-12	2015-03-02	2457083.993	$20.051 \ 0.205$	i	2m0
2014-12-15	2457007.146	$16.367 \ 0.027$	i	1m0-11	2015-03-10	2457091.946	$20.560 \ 0.152$	i	2m0
2014-12-15	2457007.148	16.380 0.025	i	1m0-11	2015-03-10	2457091.951	20.570 0.123	i	2m0

⁽a) Data have not been corrected for extinction (b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2015W: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2015-01-12	2457035.423	17.238 0.014	B	1m0-10	2015-03-03	2457085.315	18.480 0.216	g	1m0-12
2015-01-14	2457037.412	$17.379 \ 0.034$	B	1m0-10	2015-03-07	2457089.265	$18.614\ 0.030$	g	1m0-10
2015-01-16	2457039.127	$17.461\ 0.023$	B	1m0-11	2015-03-07	2457089.300	$18.535 \ 0.010$	g	1m0-12
2015-01-18	2457041.324	$17.927 \ 0.079$	B	1m0-12	2015-03-09	2457090.937	$18.577 \ 0.041$	g	1m0-03
2015-01-22	2457045.314	$17.945 \ 0.026$	B	1m0-12	2015-03-14	2457095.989	$18.712\ 0.051$	g	1m0-03
2015-01-28	2457051.429	$18.247 \ 0.088$	B	1m0-12	2015-03-18	2457099.951	$18.799 \ 0.037$	g	1m0-11
2015-01-30	2457053.037	$18.305 \ 0.025$	B	1m0-11	2015-03-19	2457101.284	$18.779 \ 0.014$	g	1m0-10
2015-01-30	2457053.279	$18.380\ 0.019$	B	1m0-10	2015-03-19	2457101.328	$18.830\ 0.015$	g	1m0-12
2015-02-03	2457056.997	$18.511\ 0.026$	B	1m0-03	2015-03-20	2457101.909	$18.897 \ 0.026$	g	1m0-11
2015-02-07	2457060.708	$18.483 \ 0.051$	B	1m0-08	2015-03-24	2457105.610	$18.943 \ 0.229$	g	1m0-08
2015-02-11	2457065.061	18.901 0.021	B	1m0-03	2015-03-29	2457111.302	$19.082\ 0.243$	g	1m0-12
2015-02-11	2457065.400	$18.815 \ 0.123$	B	1m0-10	2015-03-30	2457112.280	$18.960\ 0.111$	g	1m0-12
2015-02-12	2457065.613	$18.753\ 0.036$	B	1m0-05	2015-04-01	2457114.499	$19.219\ 0.045$	g	1m0-05
2015-02-12	2457066.405	$18.649 \ 0.051$	B	1m0-13	2015-04-03	2457115.526	$19.125 \ 0.023$	g	1m0-05
2015-02-16	2457070.291	19.076 0.013	B	1m0-10	2015-04-04	2457117.230	$19.226\ 0.064$	g	1m0-10
2015-02-18	2457072.310	19.142 0.043	B	1m0-12	2015-04-05	2457117.564	$19.222\ 0.092$	g	1m0-05
2015-02-22	2457076.340	$19.428 \ 0.012$	B	1m0-13	2015-04-06	2457118.868	19.071 0.085	g	1m0-11
2015-02-26	2457079.927	19.207 0.084	B	1m0-11	2015-04-06	2457119.230	19.425 0.055	g	1m0-13
2015-03-02	2457083.948	19.576 0.350	B	1m0-11	2015-04-07	2457119.598	19.248 0.019	g	1m0-08
2015-03-03	2457085.304	19.360 0.100	B	1m0-12	2015-04-08	2457120.668	19.273 0.040	g	1m0-08
2015-03-07	2457089.251	19.488 0.011	B	1m0-10	2015-04-09	2457121.879	19.325 0.028	g	1m0-03
2015-03-07	2457089.288	19.358 0.067	\overline{B}	1m0-12	2015-04-11	2457123.896	19.422 0.015	g	1m0-03
2015-03-09	2457090.924	19.585 0.039	B	1m0-03	2015-04-12	2457125.220	19.663 0.059	g	1m0-12
2015-03-13	2457095.355	19.484 0.203	\overline{B}	1m0-12	2015-04-13	2457126.219	19.594 0.147	g	1m0-12
2015-03-14	2457095.976	19.583 0.211	\overline{B}	1m0-03	2015-04-15	2457127.863	19.662 0.020	g	1m0-03
2015-03-19	2457101.270	19.772 0.088	\overline{B}	1m0-10	2015-04-15	2457128.229	20.037 0.097	g	1m0-10
2015-03-19	2457101.314	19.831 0.056	\overline{B}	1m0-12	2015-04-16	2457129.254	19.818 0.141	g	1m0-12
2015-03-20	2457101.896	19.907 0.036	\overline{B}	1m0-11	2015-04-19	2457132.257	19.753 0.080	g	1m0-13
2015-03-24	2457105.596	19.694 0.207	\overline{B}	1m0-08	2015-04-20	2457133.492	19.897 0.136	g	1m0-05
2015-03-29	2457111.240	19.747 0.149	\overline{B}	1m0-12	2015-04-22	2457135.237	20.034 0.054	g	1m0-10
2015-04-01	2457114.340	19.893 0.473	\overline{B}	1m0-10	2015-04-27	2457140.469	19.977 0.122	g	1m0-05
2015-04-03	2457115.514	20.057 0.204	\overline{B}	1m0-05	2015-05-02	2457144.612	20.107 0.314	g	1m0-08
2015-04-04	2457117.228	20.219 0.450	\overline{B}	1m0-13	2015-05-05	2457148.469	20.812 0.125	g	1m0-05
2015-04-04	2457117.247	20.109 0.117	B	1m0-12	2015-05-06	2457148.615	20.526 0.262	g	1m0-08
2015-04-07	2457119.614	20.056 0.089	B	1m0-08	2015-05-07	2457150.465	20.609 0.024	g	1m0-05
2015-04-07	2457120.622	20.065 0.106	$\stackrel{D}{B}$	1m0-08	2015-05-10	2457153.215	20.719 0.096	g	1m0-00
2015-04-09	2457121.864	20.189 0.188	B	1m0-03	2015-01-12	2457035.426	16.714 0.016	$\stackrel{g}{V}$	1 m 0 - 12 1 m 0 - 10
2015-04-03	2457123.896	20.157 0.110	B	1m0-03	2015-01-12	2457037.415	16.726 0.027	$\stackrel{v}{V}$	1 m 0 - 10
2015-04-11	2457124.929	20.342 0.429	B	1m0-11 1m0-03	2015-01-14	2457039.130	16.715 0.021	$\stackrel{\scriptstyle V}{V}$	1 m 0 - 10 1 m 0 - 11
2015-04-12	2457124.929	20.189 0.192	B	1m0-03 1m0-10	2015-01-10	2457035.130	16.893 0.030	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-12
2015-04-13	2457126.219	16.934 0.015		1m0-10 1m0-10	2015-01-22	2457045.317	17.077 0.016	V V	1m0-12 1m0-12
2015-01-12	2457035.429	17.008 0.044	g	1m0-10 1m0-10	2015-01-28	2457051.432	17.077 0.010	V = V	1m0-12 1m0-11
			g		2015-01-30	2457053.041	17.061 0.030	V = V	
2015-01-16	2457039.133	17.004 0.032	g	1m0-11	1				1m0-10
2015-01-18	2457041.329	17.195 0.027	g	1m0-12	2015-02-03	2457057.002	17.260 0.059	V	1m0-03
2015-01-19	2457042.428	17.201 0.014	g	1m0-12	2015-02-07	2457060.713	17.195 0.023	V	1m0-08
2015-01-22	2457045.321	17.392 0.023	g	1m0-12	2015-02-11	2457065.067	17.418 0.038	V	1m0-03
2015-01-28	2457051.436	17.604 0.066	g	1m0-12	2015-02-11	2457065.408	17.442 0.031	V	1m0-10
2015-01-30	2457053.044	17.638 0.038	g	1m0-11	2015-02-12	2457065.618	17.372 0.013	V	1 m 0 - 05
2015-01-30	2457053.288	17.575 0.020	g	1m0-10	2015-02-12	2457066.410	17.367 0.079	V	1m0-13
2015-02-03	2457057.006	17.850 0.068	g	1m0-03	2015-02-16	2457070.296	17.526 0.017	V	1m0-10
2015-02-07	2457060.717	17.929 0.012	g	1m0-08	2015-02-18	2457072.314	17.551 0.018	V	1m0-12
2015-02-11	2457065.071	18.054 0.038	g	1m0-03	2015-02-22	2457076.367	17.765 0.058	V	1m0-13
2015-02-11	2457065.429	18.289 0.027	g	1m0-10	2015-02-26	2457079.932	17.751 0.041	V	1m0-11
2015-02-12	2457065.623	18.036 0.028	g	1m0-05	2015-03-02	2457083.954	17.720 0.010	V	1m0-11
2015-02-12	2457066.414	18.230 0.016	g	1m0-13	2015-03-03	2457085.311	17.686 0.010	V	1m0-12
2015-02-16	2457070.300	$18.154\ 0.064$	g	1m0-10	2015-03-07	2457089.259	$17.863\ 0.031$	V	1m0-10
2015-02-18	2457072.318	$18.244\ 0.013$	g	1m0-12	2015-03-07	2457089.294	$17.940\ 0.046$	V	1m0-12
2015-02-22	2457076.394	$18.562 \ 0.042$	g	1m0-13	2015-03-09	2457090.931	$17.997 \ 0.021$	V	1m0-03
2015-02-26	2457079.936	$18.427 \ 0.036$	g	1m0-11	2015-03-13	2457095.360	$18.052\ 0.030$	V	1m0-12
2015-03-02	2457083.959	$18.649 \ 0.116$	g	1m0-11	2015-03-14	2457095.983	$18.083 \ 0.029$	V	1m0-03

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2015W: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2015-03-18	2457099.946	18.080 0.033	V	1m0-11	2015-03-19	2457101.335	17.319 0.015	r	1m0-12
2015-03-19	2457101.277	$18.090\ 0.026$	V	1m0-10	2015-03-20	2457101.916	$17.474\ 0.021$	r	1m0-11
2015-03-19	2457101.322	$18.143\ 0.044$	V	1m0-12	2015-03-24	2457105.617	$17.470\ 0.068$	r	1m0-08
2015-03-20	2457101.903	$18.257\ 0.013$	V	1m0-11	2015-03-29	2457111.307	$17.597 \ 0.017$	r	1m0-12
2015-03-24	2457105.605	$18.261 \ 0.141$	V	1m0-08	2015-03-30	2457112.287	$17.532\ 0.043$	r	1m0-12
2015-03-29	2457111.246	$18.166 \ 0.014$	V	1m0-12	2015-04-02	2457114.506	$17.532\ 0.027$	r	1m0-05
2015-03-30	2457112.275	$18.319\ 0.134$	V	1m0-13	2015-04-03	2457115.533	$17.354\ 0.015$	r	1m0-05
2015-04-01	2457114.491	$18.479 \ 0.015$	V	1m0-05	2015-04-04	2457117.238	$17.609 \ 0.020$	r	1m0-10
2015-04-03	2457115.519	$18.453 \ 0.018$	V	1m0-05	2015-04-05	2457117.573	$17.541 \ 0.045$	r	1m0-05
2015-04-04	2457117.236	18.892 0.138	V	1m0-13	2015-04-06	2457119.238	17.809 0.032	r	1m0-13
2015-04-04	2457117.254	$18.562 \ 0.031$	V	1m0-12	2015-04-07	2457119.604	$17.579 \ 0.024$	r	1m0-08
2015-04-05	2457117.558	18.645 0.066	V	1m0-05	2015-04-08	2457120.675	17.580 0.017	r	1m0-08
2015-04-06	2457118.669	18.400 0.015	V	1m0-08	2015-04-09	2457121.886	$17.722\ 0.051$	r	1m0-03
2015-04-07	2457119.623	18.521 0.018	V	1m0-08	2015-04-11	2457123.903	$17.734\ 0.022$	r	1m0-03
2015-04-08	2457120.629	18.548 0.073	V	1m0-08	2015-04-12	2457125.228	17.740 0.042	r	1m0-12
2015-04-09	2457121.872	18.707 0.026	V	1m0-03	2015-04-13	2457126.228	17.893 0.044	r	1m0-12
2015-04-11	2457123.904	18.529 0.046	V	1m0-11	2015-04-15	2457127.872	17.865 0.015	r	1m0-03
2015-04-12	2457124.940	18.899 0.047	V	1m0-03	2015-04-15	2457128.245	18.070 0.012	r	1m0-10
2015-04-13	2457126.228	18.834 0.030	V	1m0-10	2015-04-16	2457129.237	18.141 0.064	r	1m0-12
2015-04-15	2457128.221	19.050 0.067	V	1m0-10	2015-04-18	2457131.219	17.971 0.116	r	1m0-10
2015-04-16	2457129.248	19.184 0.063	V	1m0-12	2015-04-19	2457132.246	17.841 0.032	r	1m0-12
2015-04-17	2457129.916	19.111 0.445	V	1m0-03	2015-04-20	2457133.268	18.417 0.021	r	1m0-13
2015-04-18	2457131.227	19.262 0.125	V	1m0-12	2015-04-20	2457133.474	18.251 0.039	r	1m0-05
2015-04-19	2457132.253	19.387 0.166	$V \ V$	1m0-13	2015-04-22	2457134.515	18.087 0.015	r	1m0-05
2015-04-20 2015-04-20	2457132.599	19.261 0.076	V V	1m0-08 1m0-05	2015-04-27	2457139.513	18.968 0.021	r	1 m 0 - 05 1 m 0 - 12
2015-04-20	2457133.485 2457135.230	$19.273 \ 0.050$ $19.452 \ 0.045$	V V	1m0-05 1m0-10	2015-04-28 2015-05-01	$2457141.207 \\ 2457144.461$	18.499 0.142 18.916 0.030	r	1m0-12 1m0-05
2015-04-22	2457140.463	19.671 0.102	V = V	1m0-10 1m0-05	2015-05-01	2457146.203	18.882 0.138	$r \\ r$	1m0-03 1m0-13
2015-04-27	2457144.607	19.898 0.286	$\stackrel{\scriptstyle V}{V}$	1m0-03 1m0-08	2015-05-03	2457146.227	18.599 0.202	r	1m0-10
2015-05-03	2457146.211	20.082 0.249	$\stackrel{\scriptstyle V}{V}$	1m0-00	2015-05-05	2457148.208	19.187 0.404	r	1m0-10 1m0-13
2015-05-04	2457147.204	20.199 0.037	V = V	1m0-10 1m0-13	2015-05-06	2457148.500	18.870 0.144	r	1 m 0 - 15
2015-05-04	2457147.234	19.939 0.060	$\stackrel{\prime}{V}$	1m0-13	2015-05-07	2457150.202	18.903 0.178	$\overset{\prime}{r}$	1m0-13
2015-05-05	2457148.464	19.676 0.169	$\stackrel{\cdot}{V}$	1m0-05	2015-05-10	2457152.610	19.057 0.143	r	1m0-08
2015-05-06	2457148.607	20.289 0.230	$\stackrel{\cdot}{V}$	1m0-08	2015-09-06	2457272.096	19.806 0.172	$\overset{r}{r}$	2m0
2015-05-07	2457150.460	20.190 0.240	\overline{V}	1m0-05	2015-09-06	2457272.100	19.952 0.187	r	2m0
2015-05-10	2457153.207	20.499 0.282	\overline{V}	1m0-12	2015-09-10	2457276.115	20.254 0.074	r	2m0
2015-01-12	2457034.776	16.500 0.000	r	Atel/CBAT	2015-09-10	2457276.119	20.306 0.057	r	2m0
2015-01-12	2457035.432	16.528 0.022	r	1m0-10	2015-10-13	2457309.086	20.571 0.060	r	2m0
2015-01-14	2457037.421	$16.574\ 0.053$	r	1m0-10	2015-10-13	2457309.090	$20.676 \ 0.065$	r	2m0
2015-01-16	2457039.136	$16.496 \ 0.029$	r	1m0-11	2015-01-12	2457035.434	16.608 0.033	i	1m0-10
2015-01-22	2457045.326	$16.665 \ 0.012$	r	1m0-12	2015-01-14	2457037.423	$16.590\ 0.034$	i	1m0-10
2015-01-28	2457051.441	$16.665 \ 0.041$	r	1m0-12	2015-01-16	2457039.138	$16.506 \ 0.030$	i	1m0-11
2015-01-30	2457053.049	$16.669 \ 0.025$	r	1m0-11	2015-01-18	2457041.335	$16.539 \ 0.039$	i	1m0-12
2015-01-30	2457053.292	$16.656 \ 0.017$	r	1m0-10	2015-01-22	2457045.329	$16.543 \ 0.037$	i	1m0-12
2015-02-03	2457057.010	$16.844\ 0.023$	r	1m0-03	2015-01-28	2457051.444	$16.606 \ 0.042$	i	1m0-12
2015 - 02 - 07	2457060.722	$16.752\ 0.044$	r	1m0-08	2015-01-30	2457053.053	$16.591 \ 0.012$	i	1m0-11
2015-02-11	2457065.435	$16.972\ 0.015$	r	1m0-10	2015-01-30	2457053.296	$16.649\ 0.037$	i	1m0-10
2015-02-12	2457065.628	$16.802\ 0.041$	r	1m0-05	2015-02-03	2457057.014	$16.880\ 0.025$	i	1m0-03
2015-02-12	2457066.419	$16.984\ 0.033$	r	1m0-13	2015-02-07	2457060.726	$16.736\ 0.018$	i	1m0-08
2015-02-16	2457070.305	$16.852\ 0.015$	r	1m0-10	2015-02-12	2457065.631	$16.775 \ 0.021$	i	1m0-05
2015-02-18	2457072.323	$16.884\ 0.025$	r	1m0-12	2015-02-12	2457066.423	$16.956 \ 0.014$	i	1m0-13
2015-02-22	2457076.376	$17.228 \ 0.075$	r	1m0-13	2015-02-16	2457070.309	$16.892\ 0.020$	i	1m0-10
2015-02-26	2457079.940	$17.026 \ 0.015$	r	1m0-11	2015-02-18	2457072.326	$16.931 \ 0.021$	i	1m0-12
2015-03-02	2457083.963	$17.195 \ 0.123$	r	1m0-11	2015-02-22	2457076.386	$17.136\ 0.051$	i	1m0-13
2015-03-07	2457089.272	17.117 0.010	r	1m0-10	2015-02-26	2457079.944	$17.050 \ 0.031$	i	1m0-11
2015-03-07	2457089.307	17.118 0.035	r	1m0-12	2015-03-02	2457083.966	$17.276 \ 0.021$	i	1m0-11
2015-03-09	2457090.944	17.247 0.026	r	1m0-03	2015-03-07	2457089.276	17.217 0.020	i	1m0-10
2015-03-14	2457095.996	17.222 0.021	r	1m0-03	2015-03-07	2457089.313	17.167 0.020	i	1m0-12
2015-03-18	2457099.958	17.281 0.058	r	1m0-11	2015-03-09	2457090.949	17.148 0.049	i	1m0-03
2015-03-19	2457101.291	$17.259 \ 0.032$	r	1m0-10	2015-03-14	2457096.001	$17.319 \ 0.018$	i	1m0-03

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: SN 2015W: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$\operatorname{mag}^{(a)}$	Filter	$telescope^{(b)}$
2015-03-18	2457099.963	17.284 0.032	i	1m0-11	2015-04-18	2457131.224	18.035 0.040	i	1m0-10
2015-03-19	2457101.295	$17.369 \ 0.021$	i	1m0-10	2015-04-19	2457132.251	18.017 0.018	i	1m0-12
2015-03-19	2457101.339	$17.259\ 0.025$	i	1m0-12	2015-04-20	2457133.273	$18.547 \ 0.034$	i	1m0-13
2015-03-20	2457101.921	$17.380\ 0.012$	i	1m0-11	2015-04-20	2457133.479	$18.167 \ 0.019$	i	1m0-05
2015-03-24	2457105.621	$17.663 \ 0.053$	i	1m0-08	2015-04-22	2457134.520	$18.250\ 0.031$	i	1m0-05
2015-03-29	2457111.311	$17.679 \ 0.079$	i	1m0-12	2015-04-27	2457139.519	$18.805 \ 0.089$	i	1m0-05
2015-03-30	2457112.292	$17.574\ 0.019$	i	1m0-12	2015-04-28	2457141.212	$18.715 \ 0.118$	i	1m0-12
2015-04-02	2457114.511	$17.569 \ 0.035$	i	1m0-05	2015-05-01	2457144.466	$18.954\ 0.100$	i	1m0-05
2015-04-03	2457115.538	$17.535 \ 0.039$	i	1m0-05	2015-05-03	2457146.210	$18.496 \ 0.124$	i	1m0-13
2015-04-04	2457117.244	$17.636 \ 0.024$	i	1m0-10	2015-05-03	2457146.232	$19.144\ 0.077$	i	1m0-10
2015-04-06	2457119.244	$17.634\ 0.033$	i	1m0-13	2015-05-05	2457148.211	$18.152\ 0.394$	i	1m0-13
2015-04-07	2457119.610	$17.681\ 0.012$	i	1m0-08	2015-05-06	2457148.505	$18.926\ 0.043$	i	1m0-05
2015-04-08	2457120.680	$17.734\ 0.018$	i	1m0-08	2015-05-07	2457150.207	$19.335 \ 0.128$	i	1m0-13
2015-04-09	2457121.891	$17.730\ 0.046$	i	1m0-03	2015-05-10	2457152.616	$19.063 \ 0.062$	i	1m0-08
2015-04-11	2457123.909	$17.591 \ 0.062$	i	1m0-03	2015-05-11	2457154.219	$19.676 \ 0.413$	i	1m0-13
2015-04-12	2457125.234	$17.743\ 0.099$	i	1m0-12	2015-05-12	2457154.867	$18.971\ 0.018$	i	1m0-11
2015-04-13	2457126.233	$18.008 \ 0.051$	i	1m0-12	2015-09-06	2457272.104	$20.334\ 0.277$	i	2m0
2015-04-15	2457127.877	$17.942\ 0.029$	i	1m0-03	2015-09-06	2457272.107	$20.577\ 0.318$	i	2m0
2015-04-15	2457128.250	$17.985 \ 0.058$	i	1m0-10	2015-09-10	2457276.126	$20.527\ 0.107$	i	2m0
2015-04-16	2457129.242	$18.271\ 0.033$	i	1m0-12	2015-10-13	2457309.093	$20.945\ 0.087$	i	2m0

⁽a) Data have not been corrected for extinction (b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: LSQ14gv: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-01-25	2456682.596	18.119 0.069	B	1m0-10	2014-01-29	2456686.810	$18.071 \ 0.012$	g+r	LSQ
2014-02-01	2456689.907	$18.312\ 0.029$	B	1m0-08	2014-01-29	2456686.847	$18.078 \ 0.012$	g+r	$_{ m LSQ}$
2014-02-04	2456693.365	$18.485 \ 0.046$	B	1m0-13	2014-01-31	2456688.830	$18.059 \ 0.118$	g+r	$_{ m LSQ}$
2014-02-07	2456696.070	$18.749 \ 0.018$	B	1m0-03	2014-02-02	2456690.832	$17.949 \ 0.170$	g+r	$_{ m LSQ}$
2014-02-08	2456697.011	$18.799 \ 0.023$	B	1m0-11	2014-02-26	2456714.572	$18.736 \ 0.025$	g+r	$_{ m LSQ}$
2014-02-11	2456700.337	$18.896 \ 0.041$	B	1m0-10	2014-02-26	2456714.654	$18.735 \ 0.018$	g+r	$_{ m LSQ}$
2014-02-26	2456715.424	$19.770 \ 0.096$	B	1m0-10	2014-02-28	2456716.586	$18.747 \ 0.022$	g+r	$_{\rm LSQ}$
2014-03-09	2456726.295	$20.001 \ 0.163$	B	1m0-12	2014-02-28	2456716.669	$18.757 \ 0.018$	g+r	$_{ m LSQ}$
2014-03-27	2456744.231	$20.760 \ 0.154$	B	1m0-13	2014-03-02	2456718.594	$18.879 \ 0.025$	g+r	$_{ m LSQ}$
2014-04-02	2456750.132	$20.811 \ 0.199$	B	1m0-11	2014-03-02	2456718.679	$18.798 \ 0.020$	g+r	$_{ m LSQ}$
2014-04-19	2456767.256	$21.168 \ 0.187$	B	1m0-13	2014-03-04	2456720.540	$18.809 \ 0.020$	g+r	$_{ m LSQ}$
2014-01-25	2456682.608	$17.851 \ 0.037$	g	1m0-10	2014-03-04	2456720.625	$18.849 \ 0.020$	g+r	$_{ m LSQ}$
2014-02-01	2456689.916	18.101 0.035	g	1m0-08	2014-03-06	2456722.564	$18.854\ 0.021$	g+r	$_{ m LSQ}$
2014-02-04	2456693.375	$18.178 \ 0.031$	g	1m0-13	2014-03-06	2456722.649	18.913 0.018	g+r	$_{ m LSQ}$
2014-02-07	2456696.081	$18.199 \ 0.015$	g	1m0-03	2014-03-08	2456724.562	$18.958 \ 0.023$	g+r	$_{ m LSQ}$
2014-02-08	2456697.022	$18.264 \ 0.028$	g	1m0-11	2014-03-08	2456724.647	$18.915 \ 0.020$	g+r	$_{ m LSQ}$
2014-02-11	2456700.347	$18.364 \ 0.015$	g	1m0-10	2014-03-10	2456726.565	$18.944\ 0.026$	g+r	$_{ m LSQ}$
2014-02-15	2456704.360	$18.538 \ 0.150$	g	1m0-13	2014-03-10	2456726.648	18.911 0.026	g+r	$_{ m LSQ}$
2014-02-20	2456709.318	18.769 0.022	g	1m0-13	2014-03-12	2456728.559	19.015 0.033	g+r	$_{\rm LSQ}$
2014-02-21	2456710.338	18.726 0.011	g	1m0-13	2014-03-12	2456728.643	18.957 0.029	g+r	LSQ
2014-02-26	2456715.433	$18.784 \ 0.052$	g	1m0-10	2014-03-14	2456730.542	$18.978 \ 0.078$	g+r	$_{ m LSQ}$
2014-03-01	2456718.455	19.115 0.017	g	1m0-13	2014-03-14	2456730.628	18.973 0.060	g+r	$_{ m LSQ}$
2014-03-05	2456722.269	$19.153 \ 0.080$	g	1m0-12	2014-03-18	2456734.556	19.109 0.064	g+r	$_{ m LSQ}$
2014-03-06	2456723.268	19.158 0.021	g	1m0-13	2014-03-18	2456734.640	$19.122\ 0.057$	g+r	$_{ m LSQ}$
2014-03-09	2456726.264	19.233 0.194	g	1m0-10	2014-03-20	2456736.557	19.290 0.048	g+r	$_{ m LSQ}$
2014-03-29	2456746.273	19.808 0.021	g	1m0-12	2014-03-20	2456736.642	19.277 0.062	g+r	$_{\rm LSQ}$
2014-04-07	2456755.274	20.477 0.023	g	1m0-10	2014-03-22	2456738.559	19.313 0.027	g+r	$_{ m LSQ}$
2014-04-19	2456767.264	21.281 0.030	g	1m0-13	2014-03-22	2456738.642	19.181 0.033	g+r	$_{ m LSQ}$
2014-01-17	2456674.801	18.270 0.060	g+r	LSQ	2014-03-24	2456740.549	19.298 0.026	g+r	LSQ
2014-01-17	2456674.838	18.330 0.060	g+r	$_{ m LSQ}$	2014-03-24	2456740.631	19.409 0.026	g+r	LSQ
2014-01-21	2456678.642	17.930 0.040	g+r	LSQ	2014-03-26	2456742.548	19.369 0.027	g+r	LSQ
2014-01-21	2456678.738	18.160 0.040	g+r	LSQ	2014-03-26	2456742.633	19.419 0.025	g+r	LSQ
2014-01-25	2456682.602	17.909 0.010	V	1m0-10	2014-03-28	2456744.545	19.487 0.030	g+r	LSQ
2014-02-01	2456689.912	17.843 0.086	$V \ V$	1m0-08	2014-03-28	2456744.630	19.492 0.035	g+r	LSQ
2014-02-04	2456693.370	18.007 0.100	V = V	1m0-13	2014-03-30	2456746.537	19.577 0.036	g+r	LSQ
2014-02-07	2456696.076	18.181 0.016	V V	1m0-03	2014-03-30	2456746.621	19.677 0.039	g+r	LSQ
2014-02-08	2456697.018 2456700.342	18.189 0.038	V = V	1m0-11	2014-04-03	2456750.531	19.748 0.036	g+r	LSQ
2014-02-11 2014-02-15	2456700.342	18.339 0.029 18.172 0.064	V V	1m0-10 1m0-13	2014-04-03 2014-04-05	$2456750.614 \\ 2456752.530$	19.781 0.044 19.784 0.071	g+r	$_{ m LSQ}$
2014-02-13	2456710.334	18.428 0.070	V = V	1m0-13 1m0-13	2014-04-05	2456752.530	19.937 0.046	g+r	LSQ
2014-02-21	2456715.430	18.698 0.054	V = V	1m0-13 1m0-10	2014-04-03	2456754.519	19.955 0.057	g+r	LSQ
2014-02-20	2456718.449	18.709 0.023	V V	1m0-10 1m0-13	2014-04-07	2456754.519	19.956 0.070	g+r g+r	LSQ
2014-03-01	2456726.301	18.756 0.152	V = V	1m0-13 1m0-12	2014-04-07	2456756.528	19.954 0.066	g+r g+r	LSQ
2014-03-09	2456729.258	18.993 0.063	$\stackrel{\scriptstyle V}{V}$	1m0-12 1m0-13	2014-04-09	2456756.611	20.018 0.072	g+r g+r	LSQ
2014-03-12	2456744.243	19.402 0.159	$\stackrel{v}{V}$	1m0-13	2014-04-03	2456758.514	20.723 0.444	g+r $g+r$	LSQ
2014-03-27	2456745.365	19.389 0.137	$\stackrel{v}{V}$	1m0-13 1m0-12	2014-04-11	2456758.598	20.088 0.220	g+r $g+r$	LSQ
2014-03-23	2456750.112	19.656 0.065	$\stackrel{r}{V}$	1m0-12 1m0-11	2014-04-11	2456760.524	20.393 0.216	g+r	LSQ
2014-04-02	2456767.259	21.490 0.162	$\stackrel{r}{V}$	1m0-11	2014-04-13	2456760.607	20.382 0.198	g+r	LSQ
2014-04-19	2456666.682	< 23.629	$\stackrel{r}{V}$	1m0-19	2014-04-15	2456762.523	20.973 0.332	g+r	LSQ
2014-01-13	2456670.673	< 24.207	V	1m0-30	2014-04-15	2456762.608	20.657 0.253	g+r	LSQ
2014-01-17	2456674.801	18.209 0.041	g+r	LSQ	2014-04-17	2456764.519	21.754 0.417	g+r	LSQ
2014-01-17	2456674.838	18.377 0.045	g+r	LSQ	2014-04-17	2456764.602	21.569 0.394	g+r	LSQ
2014-01-11	2456678.642	17.933 0.022	g+r	LSQ	2014-04-17	2456766.513	21.981 0.250	g+r	LSQ
2014-01-21	2456678.738	18.034 0.022	g+r	LSQ	2014-04-19	2456766.596	21.468 0.253	g+r	LSQ
2014-01-21	2456680.638	18.027 0.014	g+r	LSQ	2014-04-13	2456768.506	21.753 0.210	g+r	LSQ
2014-01-23	2456680.722	18.351 0.027	g+r $g+r$	LSQ	2014-04-21	2456768.591	21.552 0.188	g+r $g+r$	LSQ
2014-01-25	2456682.644	18.168 0.114	g+r	LSQ	2014-04-21	2456770.504	21.886 0.260	g+r	LSQ
2014-01-25	2456682.729	17.898 0.138	g+r $g+r$	LSQ	2014-04-23	2456770.587	22.035 0.278	g+r $g+r$	LSQ
2014-01-27	2456684.710	17.971 0.011	g+r	LSQ	2014-04-25	2456772.539	22.021 0.248	g+r	LSQ
2014-01-27	2456684.794	17.977 0.011	g+r $g+r$	LSQ	2014-04-25	2456772.623	22.420 0.368	g+r $g+r$	LSQ
-011 01-41	= 10000 1.104	1 0.010	9 ' '	10 W		_ 100112.020	0 0.000	9 '	

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: LSQ14gv: Photometric Data

Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-01-25	2456682.612	17.843 0.068	r	1m0-10	2014-01-25	2456682.614	17.947 0.040	i	1m0-10
2014-02-01	2456689.921	$18.085 \ 0.029$	r	1m0-08	2014-02-01	2456689.925	$17.865 \ 0.092$	i	1m0-08
2014-02-04	2456693.381	$17.891\ 0.047$	r	1m0-13	2014-02-04	2456693.387	$18.000 \ 0.090$	i	1m0-13
2014-02-07	2456696.088	$17.955 \ 0.017$	r	1m0-03	2014-02-07	2456696.092	$18.079 \ 0.018$	i	1m0-03
2014-02-08	2456697.029	$17.987 \ 0.012$	r	1m0-11	2014-02-08	2456697.033	$17.972\ 0.041$	i	1m0-11
2014-02-11	2456700.354	$17.878 \ 0.041$	r	1m0-10	2014-02-11	2456700.358	$17.982\ 0.036$	i	1m0-10
2014-02-15	2456704.367	$17.958 \ 0.037$	r	1m0-13	2014-02-15	2456704.370	18.155 0.109	i	1m0-13
2014-02-20	2456709.327	$18.189 \ 0.066$	r	1m0-13	2014-02-20	2456709.331	$18.164\ 0.093$	i	1m0-13
2014-02-21	2456710.346	$18.293\ 0.036$	r	1m0-13	2014-02-21	2456710.351	$18.287 \ 0.125$	i	1m0-13
2014-03-01	2456718.463	$18.491 \ 0.056$	r	1m0-13	2014-02-26	2456715.448	$18.359 \ 0.052$	i	1m0-10
2014-03-05	2456722.280	$18.322\ 0.059$	r	1m0-12	2014-03-01	2456718.468	$18.392\ 0.084$	i	1m0-13
2014-03-06	2456723.275	$18.454\ 0.045$	r	1m0-13	2014-03-05	2456722.283	$18.340\ 0.066$	i	1m0-12
2014-03-09	2456726.296	$18.431 \ 0.154$	r	1m0-10	2014-03-06	2456723.280	$18.369 \ 0.059$	i	1m0-13
2014-03-29	2456746.282	$18.812\ 0.046$	r	1m0-12	2014-03-09	2456726.314	$18.470 \ 0.163$	i	1m0-10
2014-04-06	2456754.263	$19.290\ 0.105$	r	1m0-10	2014-03-29	2456746.287	$18.826 \ 0.060$	i	1m0-12
2014-04-07	2456755.283	$19.240\ 0.087$	r	1m0-10	2014-04-06	2456754.267	$19.316 \ 0.107$	i	1m0-10
2014-04-09	2456757.258	$19.145 \ 0.110$	r	1m0-12	2014-04-07	2456755.289	$19.365 \ 0.081$	i	1m0-10
2014-04-19	2456767.275	$20.422\ 0.297$	r	1m0-13	2014-04-09	2456757.266	$19.638 \ 0.077$	i	1m0-12

⁽a) Data have not been corrected for extinction (b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: LSQ13dpa: Photometric Data

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Date	JD	$\operatorname{mag}^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$\operatorname{mag}^{(a)}$	Filter	telescope ^(b)
2013-12-20	2456646.752	18.355 0.065	В	1m0-09	2014-04-16	2456764.104	19.929 0.227	g	1m0-03
2013-12-21	2456648.196	18.161 0.145	B	1m0-03	2014-04-17	2456764.684	19.566 0.048	g	1m0-08
2013-12-30	2456657.024	18.361 0.016	B	1m0-08	2014-04-19	2456767.276	19.980 0.051	g	1m0-12
2014-01-01	2456658.994	18.781 0.130	B	1m0-08	2014-04-21	2456769.067	19.979 0.013	g	1m0-11
2014-01-13	2456671.244	18.984 0.117	B	1m0-11	2014-04-23	2456770.907	20.018 0.087	g	1m0-03
2014-01-17	2456675.238	19.008 0.141	B	1m0-03	2014-04-24	2456772.323	20.379 0.049	g	1m0-12
2014-01-20	2456678.234	19.194 0.048	B	1m0-11	2014-04-25	2456772.957	20.050 0.030	g	1m0-11
2014-01-22	2456679.608	19.292 0.131	B	1m0-13	2014-04-28	2456776.226	20.449 0.213	g	1m0-13
2014-01-28	2456686.072	19.371 0.146	B	1m0-03	2014-04-28	2456776.323	20.751 0.059	g	1m0-12
2014-02-03 2014-02-07	2456692.416	19.439 0.073	B	1m0-10	2014-05-12	2456790.223	21.090 0.033	g	1m0-12
	2456696.118	19.692 0.180	$B \\ B$	1m0-03	2014-05-17	2456794.973	20.984 0.105	g	1m0-11
2014-02-08 2014-02-08	$2456697.039 \\ 2456697.055$	19.570 0.106 19.516 0.053	$\stackrel{B}{B}$	1m0-11 1m0-03	2014-05-20	2456797.954	20.530 0.211 21.229 0.139	g	1m0-11 1m0-11
					2014-05-21	2456798.927		g	
2014-02-23	2456711.965	19.596 0.040	$B \\ B$	1m0-03	2014-05-29	2456806.855	20.945 0.123	g	1m0-03
2014-02-23 2014-03-05	2456711.979 2456722.493	19.326 0.137	B	1m0-11 1m0-13	2014-06-07 2013-12-14	2456816.238	$20.950 \ 0.076 < 22.000$	V = V	1m0-13 1m0-30
2014-03-05		19.742 0.069	B	1m0-13 1m0-13	2013-12-14	2456640.700	22.000 18.580 0.050		LSQ
2014-03-07	$2456724.308 \\ 2456752.150$	$19.743 \ 0.120$ $20.449 \ 0.142$	$\stackrel{B}{B}$	1m0-13 1m0-03	2013-12-18	2456644.782 2456648.813	18.320 0.050	g+r	LSQ
2014-04-04	2456755.343	20.225 0.138	B	1m0-03 1m0-10	2013-12-22	2456646.758	18.393 0.051	g+r V	1m0-09
2014-04-07	2456756.944	20.223 0.138	B	1m0-10 1m0-11	2013-12-20	2456648.203	18.341 0.015	$\stackrel{\scriptstyle V}{V}$	1m0-09 1m0-03
2014-04-09	2456757.392	20.160 0.254	B	1m0-11 1m0-13	2013-12-21	2456657.032	18.191 0.138	V = V	1m0-03 1m0-08
2014-04-09	2456760.327	20.100 0.254	B	1m0-13 1m0-13	2013-12-30	2456658.999	18.454 0.141	V = V	1m0-08
2014-04-12	2456764.672	20.463 0.184	B	1m0-13 1m0-08	2014-01-01	2456671.237	18.426 0.131	$\stackrel{\scriptstyle V}{V}$	1m0-08 1m0-03
2014-04-17	2456767.264	21.172 0.250	B	1m0-08 1m0-12	2014-01-13	2456671.250	18.228 0.130	V = V	1m0-03 1m0-11
2014-04-19	2456769.052	20.992 0.121	B	1m0-12 1m0-11	2014-01-13	2456672.608	18.336 0.025	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-10
2014-04-21	2456770.892	20.924 0.061	B	1m0-11 1m0-03	2014-01-13	2456675.224	18.252 0.148	$\stackrel{\scriptstyle V}{V}$	1m0-10 1m0-11
2014-04-24	2456772.308	20.630 0.087	B	1m0-03 1m0-12	2014-01-17	2456675.245	18.157 0.057	$\stackrel{\scriptstyle V}{V}$	1m0-11 1m0-03
2014-04-25	2456772.942	21.079 0.061	B	1m0-12 1m0-11	2014-01-17	2456678.241	18.376 0.011	$\stackrel{\scriptstyle V}{V}$	1m0-03
2014-04-28	2456776.205	21.754 0.330	B	1m0-11	2014-01-20	2456679.612	18.272 0.131	$\stackrel{\prime}{V}$	1m0-11
2014-04-28	2456776.306	21.381 0.216	$\stackrel{D}{B}$	1m0-13	2014-01-22	2456686.076	18.377 0.141	$\stackrel{\prime}{V}$	1m0-13
2014-05-12	2456790.208	21.325 0.077	\overline{B}	1m0-12	2014-02-03	2456692.424	18.419 0.035	$\stackrel{\cdot}{V}$	1m0-10
2014-05-17	2456794.956	21.272 0.257	$\stackrel{D}{B}$	1m0-12 1m0-11	2014-02-08	2456697.046	18.398 0.129	$\stackrel{\prime}{V}$	1m0-10
2014-05-21	2456798.910	21.877 0.414	\overline{B}	1m0-11	2014-02-08	2456697.061	18.407 0.130	$\stackrel{\cdot}{V}$	1m0-03
2014-06-07	2456816.221	21.703 0.238	$\stackrel{\mathcal{D}}{B}$	1m0-13	2014-02-23	2456711.989	18.408 0.135	$\stackrel{\cdot}{V}$	1m0-11
2013-12-20	2456646.763	18.389 0.059	g	1m0-09	2014-03-06	2456722.503	18.386 0.129	$\stackrel{\cdot}{V}$	1m0-13
2013-12-21	2456648.208	18.259 0.024	g	1m0-03	2014-03-07	2456724.322	18.458 0.090	V	1m0-13
2013-12-30	2456657.008	18.161 0.022	g	1m0-08	2014-04-07	2456755.353	18.704 0.130	$\overset{\cdot}{V}$	1m0-10
2014-01-01	2456658.957	18.138 0.022	g	1m0-08	2014-04-07	2456755.372	18.507 0.015	\overline{V}	1m0-12
2014-01-07	2456665.009	18.343 0.036	g	1m0-08	2014-04-09	2456756.952	18.631 0.010	\overline{V}	1m0-11
2014-01-15	2456672.593	18.623 0.016	g	1m0-13	2014-04-09	2456757.401	18.659 0.017	V	1m0-13
2014-01-17	2456675.022	18.700 0.072	g	1m0-08	2014-04-17	2456764.678	19.033 0.018	V	1m0-08
2014-01-25	2456682.515	18.767 0.018	g	1m0-12	2014-04-19	2456767.271	19.014 0.136	V	1m0-12
2014-01-31	2456689.407	18.660 0.161	g	1m0-10	2014-04-21	2456769.061	19.311 0.022	V	1m0-11
2014-02-01	2456689.558	18.778 0.160	g	1m0-12	2014-04-23	2456770.900	$19.367 \ 0.081$	V	1m0-03
2014-02-03	2456692.013	18.701 0.156	g	1m0-11	2014-04-24	2456772.317	19.610 0.055	V	1m0-12
2014-02-03	2456692.429	$18.689 \ 0.152$	g	1m0-12	2014-04-25	2456772.952	$19.534\ 0.181$	V	1m0-11
2014-02-07	2456696.216	18.839 0.153	g	1m0-11	2014-04-28	2456776.216	19.847 0.160	V	1m0-13
2014-02-08	2456697.029	18.740 0.050	g	1m0-03	2014-04-28	2456776.317	20.030 0.201	V	1m0-12
2014-02-11	2456700.364	18.831 0.111	g	1m0-10	2014-05-12	2456790.217	$20.441\ 0.117$	V	1m0-12
2014-02-17	2456705.988	18.980 0.087	g	1m0-03	2014-05-17	2456794.967	$20.525 \ 0.092$	V	1m0-11
2014-02-20	2456709.325	$18.695 \ 0.020$	g	1m0-12	2014-05-21	2456798.920	$20.462\ 0.166$	V	1m0-11
2014-02-24	2456713.367	$18.870\ 0.022$	g	1m0-13	2014-05-29	2456806.849	$20.339\ 0.157$	V	1m0-03
2014-03-05	2456722.310	$18.864\ 0.031$	g	1m0-13	2014-06-07	2456816.233	$20.639\ 0.252$	V	1m0-13
2014-03-07	2456724.294	$18.864\ 0.088$	g	1m0-12	2013-12-18	2456644.782	$18.497\ 0.036$	g + r	$_{ m LSQ}$
2014-03-12	2456729.283	18.839 0.049	g	1m0-13	2013-12-18	2456644.830	$18.456\ 0.028$	g+r	$_{ m LSQ}$
2014-03-27	2456743.609	$19.009 \ 0.154$	g	1m0-08	2013-12-22	2456648.765	$18.352\ 0.028$	g+r	$_{ m LSQ}$
2014-04-07	2456755.320	$19.128\ 0.053$	g	1m0-10	2013-12-22	2456648.813	$18.296 \ 0.029$	g+r	$_{ m LSQ}$
2014-04-10	2456758.262	$19.283\ 0.011$	g	1m0-12	2013-12-30	2456656.857	$18.281\ 0.021$	g+r	$_{ m LSQ}$
2014-04-11	2456759.388	$19.394\ 0.157$	g	1m0-13	2013-12-30	2456656.862	$18.307\ 0.021$	g+r	$_{ m LSQ}$
2014-04-11	2456759.426	$19.028\ 0.059$	g	1m0-12	2014-01-03	2456660.846	$18.333\ 0.014$	g+r	LSQ

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D1: LSQ13dpa: Photometric Data

	SQ13dpa: Fnot			(1)	_				(1)
Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$	Date	JD	$mag^{(a)}$	Filter	$telescope^{(b)}$
2014-01-05	2456662.771	$18.391\ 0.015$	g+r	$_{ m LSQ}$	2014-04-19	2456767.285	$18.475 \ 0.048$	r	1m0-12
2014-01-05	2456662.822	$18.339 \ 0.015$	g + r	$_{ m LSQ}$	2014-04-21	2456769.076	$18.756 \ 0.028$	r	1m0-11
2014-01-07	2456664.711	$18.374\ 0.016$	g + r	$_{ m LSQ}$	2014-04-23	2456770.915	$18.620\ 0.028$	r	1m0-03
2014-01-07	2456664.796	$18.391 \ 0.014$	g + r	$_{ m LSQ}$	2014-04-24	2456772.332	$19.080 \ 0.066$	r	1m0-12
2014-01-09	2456666.705	$18.445 \ 0.018$	g+r	$_{ m LSQ}$	2014-04-25	2456772.965	$18.827 \ 0.027$	r	1m0-11
2014-01-09	2456666.799	$18.412\ 0.019$	g+r	$_{ m LSQ}$	2014-04-28	2456776.232	$19.074 \ 0.047$	r	1m0-13
2014-02-19	2456707.784	$18.561 \ 0.027$	g+r	$_{ m LSQ}$	2014-04-28	2456776.332	$19.480 \ 0.326$	r	1m0-12
2014-02-19	2456707.841	$18.526 \ 0.033$	g+r	$_{ m LSQ}$	2014-05-12	2456790.232	$19.966 \ 0.119$	r	1m0-12
2014-02-21	2456709.789	$18.510 \ 0.020$	g+r	$_{ m LSQ}$	2014-05-17	2456794.983	$19.803 \ 0.125$	r	1m0-11
2014-02-21	2456709.869	$18.536 \ 0.024$	g + r	$_{ m LSQ}$	2014-05-21	2456798.937	$19.839\ 0.131$	r	1m0-11
2014-03-01	2456717.708	$18.621 \ 0.020$	g+r	$_{ m LSQ}$	2014-05-29	2456806.864	$19.865 \ 0.012$	r	1m0-03
2014-03-03	2456719.702	$18.529\ 0.016$	g + r	$_{ m LSQ}$	2014-06-07	2456816.247	$20.161 \ 0.023$	r	1m0-13
2014-03-03	2456719.785	$18.508 \ 0.016$	g + r	$_{ m LSQ}$	2014-06-27	2456836.202	$20.221\ 0.268$	r	1m0-13
2014-03-05	2456721.697	$18.538 \ 0.016$	g + r	$_{ m LSQ}$	2014-06-27	2456836.281	$20.118 \ 0.177$	r	1m0-10
2014-03-05	2456721.781	$18.510\ 0.016$	g + r	$_{ m LSQ}$	2013-12-20	2456646.774	$18.657 \ 0.086$	i	1m0-09
2014-03-13	2456729.587	$18.460\ 0.027$	g + r	$_{ m LSQ}$	2013-12-21	2456648.218	$18.591 \ 0.120$	i	1m0-03
2014-03-13	2456729.671	$18.497 \ 0.025$	g + r	$_{ m LSQ}$	2013-12-30	2456657.019	$18.242\ 0.097$	i	1m0-08
2014-03-21	2456737.653	$18.519 \ 0.020$	g + r	$_{ m LSQ}$	2014-01-01	2456658.967	$18.303 \ 0.233$	i	1m0-08
2014-03-21	2456737.736	$18.504\ 0.021$	g + r	$_{\rm LSQ}$	2014-01-03	2456661.021	$18.256 \ 0.029$	i	1m0-08
2014-03-23	2456739.624	$18.546 \ 0.016$	g + r	$_{ m LSQ}$	2014-01-07	2456665.019	$18.251 \ 0.024$	i	1m0-08
2014-03-23	2456739.709	$18.526 \ 0.019$	g + r	$_{\rm LSQ}$	2014-01-15	2456672.604	$18.324\ 0.079$	i	1m0-13
2014-03-25	2456741.614	$18.591 \ 0.017$	g + r	$_{ m LSQ}$	2014-01-17	2456675.033	$18.429\ 0.100$	i	1m0-08
2014-03-25	2456741.698	$18.547 \ 0.016$	g + r	$_{ m LSQ}$	2014-01-21	2456679.082	$18.165 \ 0.026$	i	1m0-03
2014-12-16	2457007.764	$21.492\ 0.261$	g + r	$_{ m LSQ}$	2014-01-25	2456682.529	18.345 0.019	i	1m0-12
2014-12-16	2457007.836	$22.200\ 0.427$	g + r	$_{ m LSQ}$	2014-02-03	2456692.026	18.208 0.111	i	1m0-11
2013-12-20	2456646.770	$18.501 \ 0.044$	r	1m0-09	2014-02-03	2456692.442	$18.105 \ 0.122$	i	1m0-12
2013-12-21	2456648.214	$18.241 \ 0.061$	r	1m0-03	2014-02-07	2456696.231	$18.174\ 0.067$	i	1m0-11
2013-12-30	2456657.015	$18.046 \ 0.015$	r	1m0-08	2014-02-08	2456697.037	18.078 0.060	i	1m0-03
2014-01-01	2456658.964	$17.917 \ 0.109$	r	1m0-08	2014-02-11	2456700.376	18.289 0.044	i	1m0-10
2014-01-03	2456661.017	$18.055 \ 0.026$	r	1m0-08	2014-02-17	2456706.000	$18.107 \ 0.221$	i	1m0-03
2014-01-07	2456665.016	18.113 0.031	r	1m0-08	2014-02-20	2456709.337	18.047 0.033	i	1m0-12
2014-01-15	2456672.600	$18.202 \ 0.048$	r	1m0-13	2014-02-24	2456713.380	$18.185 \ 0.025$	i	1m0-13
2014-01-17	2456675.029	$18.110 \ 0.070$	r	1m0-08	2014-03-05	2456722.323	18.009 0.012	i	1m0-13
2014-01-25	2456682.524	$18.226 \ 0.026$	r	1m0-12	2014-03-07	2456724.319	18.167 0.033	i	1m0-12
2014-02-03	2456692.439	$17.959 \ 0.050$	r	1m0-12	2014-03-12	2456729.297	18.081 0.014	i	1m0-13
2014-02-07	2456696.226	$18.177 \ 0.028$	r	1m0-11	2014-03-27	2456743.620	18.180 0.026	i	1m0-08
2014-02-08	2456697.032	$18.025 \ 0.042$	r	1m0-03	2014-04-07	2456755.334	18.430 0.110	i	1m0-10
2014-02-11	2456700.372	18.211 0.025	r	1m0-10	2014-04-09	2456756.878	18.101 0.113	i	1m0-03
2014-02-17	2456705.995	18.051 0.193	r	1m0-03	2014-04-10	2456758.276	18.357 0.031	i	1m0-12
2014-02-20	2456709.334	18.057 0.112	r	1m0-12	2014-04-11	2456759.440	18.190 0.064	i	1m0-12
2014-02-24	2456713.375	18.089 0.059	r	1m0-13	2014-04-17	2456764.698	18.458 0.132	i	1m0-08
2014-03-05	2456722.318	18.026 0.011	r	1m0-13	2014-04-19	2456767.290	18.504 0.071	i	1m0-12
2014-03-07	2456724.318	18.106 0.015	r	1m0-12	2014-04-21	2456769.081	18.763 0.031	i	1m0-11
2014-03-12	2456729.292	18.077 0.038	r	1m0-13	2014-04-23	2456770.920	18.798 0.028	i	1m0-03
2014-03-27	2456743.614	17.998 0.103	r	1m0-08	2014-04-24	2456772.337	19.099 0.103	i	1m0-12
2014-04-07	2456755.329	18.423 0.095	$\overset{\prime}{r}$	1m0-00	2014-04-24	2456772.971	19.049 0.159	i	1m0-12 1m0-11
2014-04-10	2456758.271	18.149 0.073	r	1m0-12	2014-04-28	2456776.237	19.070 0.373	i	1m0-13
2014-04-10	2456759.435	18.099 0.146	r	1m0-12	2014-04-28	2456790.236	19.852 0.202	i	1m0-13
2014-04-11	2456764.110	18.811 0.073	r	1m0-12 1m0-03	2014-05-12	2456794.987	19.981 0.050	i	1m0-12 1m0-11
2014-04-17	2456764.693	18.574 0.102	r	1m0-08	2014-05-11	2456798.941	20.042 0.094	i	1m0-11
2017.04-11	2400104.033	10.014 0.102	,	11110-00	2014-00-21	2-100100.041	20.042 0.034	ı	11110-11

⁽a) Data have not been corrected for extinction

⁽b) Swift Telescope; LSQ (La Silla Quest, Chile); 1m0-08 (McDonald Observatory, USA); 1m0-10, 1m0-12, 1m0-13 (Sutherland, South Africa), 1m0-04, 1m0-05, 1m0-09 (Cerro Tololo, Chile); 1m0-03, 1m0-11 (Siding Spring, Australia).

Table D2: Slope Data

SN	$M(V) * \Delta M$	s50(V) (V)	Δ s50(V)	ph_start	ph_stop (V)	M(R) (V)	ΔM	s50(R) (R)	$\Delta s50(R)$	ph_start	ph_stop (R)	M(I) (R)	ΔM	s50(I)	$\Delta s50(I)$	ph_start	ph_stop (I)	(I)
2013ai	16.80	0.02	0.0209	0.0006	17.6	54.5	16.59	0.02	0.0129	0.0004	17.6	64.5	16.29	0.05	0.0112	0.0009	19.6	63.5
2013bu	16.33	0.04	0.0053	0.0013	6.2	48.1	15.61	0.02	0.0014	0.0005	6.2	57.1	15.63	0.01	-0.0027	0.0004	6.2	55.1
2013fs	16.03	0.04	0.0158	0.0014	4.5	58.4	15.98	0.03	0.0075	0.0009	14.5	60.4	15.80	0.03	0.0065	0.0008	14.5	69.6
LSQ13dpa	18.31	0.03	0.0011	0.0011	5.5	54.4 61.1	18.05	0.07	0.0008	0.0017 0.0008	14.3	66.6	18.36	$0.07 \\ 0.02$	-0.0032 0.0019	0.0017 0.0007	14.3	63.3
2014cy 2014dw	15.81 15.55	$0.04 \\ 0.03$	0.0124 0.0291	0.0012 0.0009	$\frac{5.4}{14.2}$	54.1	15.83 15.63	$0.03 \\ 0.02$	0.0064 0.0185	0.0008	0.8 11.6	61.1 63.8	15.97 15.59	0.02	0.0019 0.0170	0.0007	$\frac{5.4}{14.2}$	61.1 63.8
LSQ14gv	17.71	0.04	0.0239	0.0012	7.8	51.8	17.65	0.02	0.0157	0.0019	7.8	71.5	17.71	0.03	0.0148	0.0012	7.8	71.5
ASASSN-14dq	15.69	0.02	0.0170	0.0006	5.5	55.0	15.67	0.02	0.0101	0.0005	9.1	66.9	15.80	0.02	0.0096	0.0004	9.1	66.9
ASASSN-14gm	14.83	0.02	0.0026	0.0005	7.2	62.1	14.74	0.02	0.0003	0.0005	7.2	62.1	14.90	0.01	-0.0034	0.0004	7.2	62.1
ASASSN-14kg	15.67	0.04	0.0223	0.0012	18.8	51.7	15.73	0.07	0.0143	0.0016	21.6	68.7	15.80	0.07	0.0138	0.0015	23.8	68.7
ASASSN-14ha	14.89	0.01	0.0070	0.0005	3.1	60.4	15.00	0.02	-0.0005	0.0006	3.1	72.2	15.19	0.01	-0.0043	0.0005	1.8	72.2
2015W 2013ab	16.40 14.64	0.03 0.02	0.0247 0.0149	0.0010 0.0006	10.4 8.8	54.9 53.4	16.37 14.63	$0.04 \\ 0.02$	0.0127 0.0075	0.0011 0.0005	9.8 8.3	65.9 66.3	16.29 14.58	$0.05 \\ 0.01$	0.0145 0.0033	0.0013 0.0003	12.4 11.3	64.3 66.3
2013ab 2013by	12.87	0.02	0.0290	0.0007	11.8	48.8	12.97	0.02	0.0075	0.0005	7.9	61.6	12.91	0.01	0.0194	0.0012	7.5	51.8
2013by 2013ej	12.14	0.03	0.0236	0.0009	14.9	51.4	12.02	0.04	0.0161	0.0011	14.9	66.3	11.97	0.06	0.0124	0.0012	14.9	63.3
2014G	13.89	0.03	0.0335	0.0008	14.4	53.6	13.97	0.03	0.0233	0.0009	14.4	65.3	13.90	0.05	0.0227	0.0013	14.4	65.3
1986L	13.53	0.05	0.0209	0.0015	8.2	62.3	_	_	_	_	_	_	_	_	_	_	_	_
1987A	4.57	0.01	-0.0189	0.0004	3.5	34.5	4.22	0.01	-0.0299	0.0002	6.5	56.5	3.99	0.02	-0.0344	0.0008	4.6	49.4
1979C	11.73	0.04	0.0282	0.0012	16.7	50.7	-	-	-	-	_	-	_	-	_	-	-	-
1990E 1991al	15.73 16.35	0.02 0.03	-0.0082 0.0151	0.0013 0.0008	$7.6 \\ 15.3$	$\frac{27.3}{56.1}$	16.10	0.02	0.0113	0.0006	$^{-}$ 12.2	- 65.1	16.01	0.03	0.0085	0.0008	15.3	65.1
1991ai 1992af	17.11	0.03	0.0131	0.0008	14.3	40.3	10.10	0.02	0.0113	0.0006	12.2	05.1	15.66	0.03	0.0239	0.0061	16.1	81.1
1992ba	15.13	0.03	0.0047	0.0029	16.3	68.3	_	_	-	_	_	_	-	-	-		-	-
1993A	-				_	-	-	-	-	_	_	-	18.88	0.06	0.0008	0.0015	16.7	77.7
1993K	_	_	-	-	-	-	14.82	inf	0.0151	inf	12.6	43.5	_	_	_	-	_	_
1993S	-	_	-	-	_	-	-	-	-	-	-	-	17.60	0.06	0.0129	0.0013	13.4	57.4
1999ca	17.95	$^{-}_{0.02}$	0.0138	-0.0005	9.3	$^{-}$ 54.0	17.69	0.01	0.0091	0.0003	9.3	- 55.3	14.88	0.04	0.0169 0.0069	0.0008 0.0005	28.0	63.0
1999cr 1999em	13.80	0.02	0.0138	0.0005	9.3 5.4	54.0 55.2	13.64	0.01	-0.0016	0.0003	9.3 8.3	70.3	17.46 13.64	0.02 0.01	-0.0074	0.0003	$\frac{10.4}{5.3}$	57.2 62.1
1999gi	14.53	0.03	0.0064	0.0004	11.8	71.7	14.39	0.01	-0.0003	0.0013	4.1	60.4	14.14	0.01	-0.0074	0.0003	9.8	63.6
1999br	17.56	0.02	0.0004	0.0006	7.0	59.0	17.35	0.01	-0.0053	0.0004	8.5	57.5	17.26	0.02	-0.0112	0.0005	7.7	67.5
2000dc	15.78	0.04	0.0257	0.0014	11.2	50.2	15.61	0.02	0.0153	0.0007	11.2	58.2	15.36	0.02	0.0128	0.0005	11.2	58.2
2001fa	15.62	0.07	0.0513	0.0032	8.4	33.3	15.84	0.13	0.0282	0.0035	11.4	80.2	15.72	0.08	0.0248	0.0033	7.3	52.3
2001do	15.54	0.03	0.0246	0.0008	8.0	52.9	15.25	0.02	0.0174	0.0006	11.0	58.9	15.05	0.02	0.0136	0.0007	11.0	55.9
2001cy 2001X	15.76 15.12	0.03 0.02	0.0209 0.0044	0.0011 0.0005	$9.4 \\ 13.1$	56.3 63.9	15.72 14.93	$0.01 \\ 0.02$	0.0123 0.0005	$0.0005 \\ 0.0005$	$6.4 \\ 13.1$	61.3 68.9	15.71 14.96	$0.01 \\ 0.04$	0.0084 -0.0038	0.0004 0.0008	$6.4 \\ 13.1$	66.3 68.9
2001X 2002gd	17.01	0.02	0.0149	0.0014	8.0	47.5	16.93	0.02	0.0038	0.0008	6.7	65.6	16.89	0.04	0.0006	0.0012	8.0	63.6
2002gu	17.29	0.02	0.0035	0.0014	8.3	56.3	-	- 0.00	-	-	-	-	16.92	0.02	-0.0052	0.0007	9.2	56.3
2002hj	17.91	0.04	0.0166	0.0010	23.2	53.2	_	_	-	_	_	_	17.46	0.03	0.0098	0.0007	23.2	57.1
2002hh	16.15	0.05	0.0055	0.0021	3.1	43.1	_	_	_	_	_	-	13.61	0.03	0.0005	0.0013	4.1	43.1
2003B	15.65	0.02	0.0062	0.0005	29.2	56.1	-	-	-	-	-	-	-	-	-	-	-	-
2003E	18.38	0.04	0.0010	0.0009	14.2	67.1	_	_	-	-	_	-	17.68	0.03	-0.0037	0.0008	13.7	59.6
2003T 2003Z	18.79 17.17	0.03 0.05	0.0087 0.0031	0.0010 0.0012	14.2 4.8	$\frac{56.2}{61.7}$	16.94	0.04	-0.0000	0.0008	8.9	74.5	18.50 16.96	0.02 0.02	-0.0018 -0.0067	0.0006 0.0005	14.2 8.9	56.2 61.7
2003E	18.81	0.03	0.0031	0.0012	2.0	65.2	-	-	-0.0000	0.0008	-	-	18.64	0.02	-0.0073	0.0003	2.8	54.7
2003bn	17.13	0.03	0.0063	0.0007	10.1	70.1	_	_	_	_	_	_	16.95	0.02	-0.0029	0.0005	12.0	66.0
2003cn	18.11	0.04	0.0151	0.0012	14.4	45.2	_	_	_	_	_	-	17.89	0.06	0.0060	0.0016	13.9	62.7
2003cx	19.35	0.06	0.0070	0.0018	11.4	54.3	-	-	-	-	-	-	-	-	-	-	-	-
2003ef	17.40	0.03	0.0083	0.0008	13.2	61.1	_	_	-	_	_	-	16.83	0.04	0.0001	0.0010	22.6	66.6
2003fb	19.30 18.65	$0.09 \\ 0.05$	0.0060	0.0018 0.0013	21.3 9.3	$66.1 \\ 51.2$	18.60	0.04	0.0050	0.0008	13.2	$^{-}_{72.2}$	10.40	0.04	0.0020	0.0009	13.2	- 57.2
2003hd 2003hf	16.62	0.05	0.0138 0.0392	0.0013	13.2	49.1	16.65	0.04	0.0291	0.0008	13.2	55.1	18.48 16.60	0.04	0.0020	0.0016	15.2	52.1
2003hr 2003hg	17.43	0.05	0.0352	0.0017	6.2	64.1	16.84	0.04	0.0065	0.0013	13.8	63.6	16.48	0.03	0.0026	0.0009	5.7	63.6
2003hl	16.40	0.09	0.0070	0.0024	12.9	61.7	16.23	0.05	0.0003	0.0012	10.9	59.7	15.83	0.06	-0.0038	0.0014	14.0	63.8
2003hn	14.10	0.06	0.0157	0.0012	22.8	61.8	13.93	0.03	0.0099	0.0008	20.8	61.8	13.93	0.02	0.0055	0.0004	20.8	76.7
2003ib	17.72	0.02	0.0177	0.0007	15.0	61.1	17.54	0.05	0.0123	0.0012	16.6	62.5	17.51	0.02	0.0077	0.0005	14.5	62.5
2003ip	16.24	0.04	0.0210	0.0008	19.2	63.1	16.04	0.05	0.0137	0.0011	18.7	62.6	15.84	0.04	0.0126	0.0008	18.7	69.6
2003iq	15.63	0.01	$0.0066 \\ 0.0124$	0.0004	6.9	51.8 60.7	15.41	0.06	0.0033 0.0086	0.0014 0.0005	7.4	72.2	15.38	$0.05 \\ 0.02$	-0.0011	0.0014 0.0005	7.4	68.1
2004du 2004et	16.60 12.44	$0.02 \\ 0.04$	0.0124	0.0005 0.0010	9.8 9.4	59.3	16.39 12.18	$0.01 \\ 0.03$	0.0086 0.0034	0.0005	9.8 9.4	41.7 59.3	16.42 11.95	0.02 0.02	0.0032 -0.0004	0.0005 0.0004	16.7 18.4	$60.7 \\ 84.3$
2004er	16.94	0.02	0.0103	0.0010	10.1	77.0	-	-	-	-	-	-	-	-	-0.0004	-	-	-
2004fx	17.53	0.02	0.0007	0.0007	18.4	59.2	_	_	-	_	-	_	_	_	_	_	_	_
2005J	16.63	0.02	0.0144	0.0005	7.1	64.0	-	_	-	_	_	-	_	_	_	_	_	_
2005dq	17.27	0.07	0.0256	0.0021	7.3	57.2	17.39	0.06	0.0157	0.0015	19.2	57.2	16.89	0.06	0.0220	0.0019	9.3	49.2
2005cs	14.52	0.01	0.0063	0.0006	1.4	51.4	14.43	0.01	-0.0039	0.0004	5.5	61.4	14.42	0.01	-0.0086	0.0004	5.5	63.3
$2005 dx \\ 2005 dz$	19.03 17.87	0.03 0.01	$0.0161 \\ 0.0114$	0.0010 0.0004	10.1 9.3	51.1 56.1	_	_	_	_	_	_	_	_	_	_	_	_
2005dz 2006Y	17.68	0.01	0.0114	0.0053	9.3	32.1	_	_	_	_	_	_	_	_	_	_	_	_
2006iw	18.52	0.02	0.0118	0.0008	8.0	65.0	_	_	_	_	_	_	_	_	_	-	_	_
2006ai	16.13	0.04	0.0285	0.0014	5.0	53.7	_	_	-	_	-	_	_	_	_	_	_	_
2006 bp	15.08	0.02	0.0081	0.0008	6.8	51.5	14.77	0.03	0.0017	0.0015	4.1	30.2	-	-	_	_	_	-
2007W	17.55	0.02	0.0030	0.0006	11.0	70.9	-	-	-	_	-	-	-	-	-	-	-	-
2007U	17.13	0.07	0.0225	0.0023	9.0	50.9	-	-	-	_	-	-	-	-	_	_	-	-
2007X	15.19	0.04	0.0183	0.0012	10.1	54.0	-	-	-	_	_	-	-	-	_	-	-	-
2007ab	17.67	0.09	0.0286	0.0021	35.1	56.1	_	_	_	_	_	_	_	_	_	_	_	

^{*} the slope is computed with the following equation: mag = $M + s50 \times t$

Table D2: Slope Data

SN	$M(V) * \Delta M$	s50(V) (V)	Δ s50(V)	ph_start	ph_stop (V)	M(R) (V)	ΔM	s50(R) (R)	$\Delta s50(R)$	ph_start	ph_stop (R)	M(I) (R)	ΔM	s50(I) (I)	$\Delta s50(I)$	ph_start	ph_stop (I)	(1)
2007it	18.80	0.02	0.0083	0.0006	14.2	79.1	_		_	_	`-´	<u> </u>	_		_	_		
2007ld	17.86	0.04	0.0196	0.0015	6.0	48.0	-	_	_	_	_	-	-	_	_	_	_	-
2007od	14.16	0.02	0.0146	0.0007	5.5	55.5	13.92	0.03	0.0100	0.0008	6.6	58.2	13.71	0.06	0.0103	0.0018	6.6	58.2
2008M	15.91	0.04	0.0122	0.0013	13.0	55.8	-	_	-	-	-	-	-	_	-	-	-	-
2008K	17.70	0.03	0.0278	0.0009	7.1	61.1	-	_	-	-	-	-	-	_	-	-	-	-
2008aw	15.30	0.05	0.0285	0.0015	13.1	45.1	-	_	-	-	-	-	-	_	-	-	-	-
2008fq	15.35	0.06	0.0333	0.0020	12.6	46.5	-	_	-	-	-	-	-	_	-	-	-	-
2008if	15.38	0.03	0.0306	0.0012	11.0	48.0	-	_	-	-	-	-	-	_	-	-	-	-
2008in	15.45	0.08	0.0271	0.0019	7.9	57.8	15.10	0.03	0.0082	0.0006	4.9	63.7	14.77	0.06	0.0055	0.0012	4.9	69.7
2009N	16.28	0.02	0.0032	0.0004	13.1	71.1	16.03	0.02	-0.0026	0.0005	11.6	55.6	15.87	0.02	-0.0079	0.0004	11.7	62.4
2009bw	14.74	0.02	0.0206	0.0008	9.0	53.8	14.51	0.02	0.0127	0.0006	9.7	56.9	14.33	0.02	0.0065	0.0007	9.0	66.1
2009dd	14.58	0.05	0.0184	0.0021	11.2	46.1	_	_	_	_	_	_	_	_	_	_	_	_
2009ib	15.73	0.02	0.0089	0.0006	13.1	55.0	15.52	0.02	0.0035	0.0005	13.1	63.0	15.46	0.01	-0.0016	0.0003	13.1	80.0
2009js	17.27	0.02	0.0045	0.0006	8.8	56.5	16.77	0.01	0.0016	0.0004	11.6	61.6	16.56	0.02	-0.0043	0.0004	11.6	61.6
2009kr	15.25	0.02	0.0272	0.0006	9.1	54.3	15.02	0.03	0.0175	0.0008	11.2	62.3	14.61	0.02	0.0183	0.0007	11.2	62.3
2009md	16.98	0.04	0.0059	0.0009	22.0	57.7	16.72	0.03	0.0011	0.0007	18.0	62.5	16.66	0.05	-0.0023	0.0009	19.6	74.5
2010id	18.83	0.05	0.0056	0.0014	4.0	79.8	18.86	0.04	-0.0001	0.0011	6.0	79.8	18.58	0.05	-0.0082	0.0016	6.0	76.8
2012A	13.72	0.03	0.0146	0.0009	9.5	53.5	13.56	0.03	0.0077	0.0007	8.4	65.6	13.51	0.03	0.0038	0.0008	11.6	65.6
2012aw	13.25	0.02	0.0051	0.0006	9.8	54.6	13.11	0.01	-0.0003	0.0003	12.9	62.6	13.14	0.01	-0.0065	0.0003	6.1	67.0
2012ec	14.79	0.03	0.0073	0.0009	12.2	51.9	14.64	0.04	0.0023	0.0010	15.3	59.2	14.62	0.03	-0.0034	0.0008	14.6	69.2
LSQ13cuw	-	-	-	-	-	-	17.90	0.08	0.0467	0.0020	13.4	59.4	18.10	0.18	0.0384	0.0035	27.8	75.6
OGLE13-005	-	-	-	-	-	-	-	_	-	-	-	-	-18.09	0.06	0.0031	0.0015	8.9	62.9
OGLE13-011	_	_	_	_	_	_	_	_	_	_	_	_	-18.02	0.08	0.0076	0.0017	12.4	64.3
OGLE13-045	_	_	_	_	_	_	_	_	_	_	_	_	-18.62	0.10	0.0077	0.0018	17.4	78.3
OGLE13-046	_	_	_	_	_	_	_	_	_	_	_	_	-17.97	0.08	0.0040	0.0020	9.0	57.8
OGLE13-047	_	_	_	_	_	_	_	_	_	_	_	_	-19.09	0.05	0.0155	0.0011	10.5	67.3
OGLE13-048	_	_	_	_	_	_	_	_	_	_	_	_	-17.55	0.08	0.0013	0.0014	19.4	92.3
OGLE13-135	-	-	-	-	-	-	-	_	-	-	-	-	-18.42	0.05	0.0023	0.0012	13.0	68.9
OGLE13-144	_	-	-	-	_	-	-	_	_	_	_	-	-17.84	0.06	0.0096	0.0014	6.0	63.9
OGLE14-004	_	-	-	-	_	-	-	_	_	_	_	-	-17.07	0.05	0.0027	0.0016	2.5	53.3
OGLE14-009	_	-	-	-	_	-	-	_	_	_	_	-	-18.05	0.07	0.0124	0.0018	6.5	61.3
OGLE14-018	_	-	-	-	_	-	-	_	_	_	_	-	-17.36	0.06	0.0006	0.0013	8.5	91.3

^{*} the slope is computed with the following equation: mag = M + $s50 \times t$

Table D3: Bolometric light curve parameters

SN	Log10(Lum1(0))	S1	$\Delta S1$	ph_start [days]	ph_stop [days]	Log10(Lum2(0))	S2	$\Delta S2$	ph_start [days]	ph_stop [days]	Ni M⊙	ΔNi ${ m M}_{\odot}$
2013ai	41.62	-0.0081	0.0001	18.6	49.5	41.47	-0.0057	0.0005	54.5	92.2	_	_
2013bu	41.24	-0.0044	0.0003	6.2	35.1	41.18	-0.0020	0.0003	35.1	78.1	0.0021	0.0007
2013fs	42.47	-0.0146	0.0009	4.5	27.6	42.19	-0.0054	0.0002	31.5	75.5	0.0545	0.0003
LSQ13dpa	42.02	-0.0042	0.0006	5.5	36.9	41.99	-0.0021	0.0004	43.4	114.3	0.0714	0.0127
2014cy	41.66	-0.0060	0.0005	5.4	33.0	41.51	-0.0031	0.0002	44.3	94.5	0.0037	0.0038
2014dw	42.23	-0.0135	0.0005	14.2	38.2	42.18	-0.0113	0.0003	47.5	78.5	0.0094	0.0008
LSQ14gv	42.19	-0.0081	0.0014	3.8	40.6	42.17	-0.0087	0.0007	35.5	70.6	-	_
ASASSN-14dq	42.36	-0.0098	0.0004	7.7	33.6	42.18	-0.0048	0.0003	48.7	82.6	0.0461	0.0079
ASASSN-14gm	42.10	-0.0030	0.0003	12.2	43.3	42.07	-0.0021	0.0004	43.3	85.6	0.0767	0.0102
ASASSN-14ha	41.28	-0.0093	0.0003	1.8	37.5	41.02	-0.0020	0.0002	42.9	121.5	0.0014	0.0002
2015W	42.26	-0.0096	0.0005	9.8	45.3	42.08	-0.0061	0.0006	51.4	92.2	0.0314	0.0098
2013ab	42.36	-0.0120	0.0002	8.8	36.4	42.00	-0.0027	0.0001	42.4	82.2	0.0588	0.0100
2013by	42.80	-0.0167	0.0007	8.5	39.7	42.48	-0.0083	0.0002	39.7	67.6	0.0320	0.0043
2013ej	42.46	-0.0136	0.0004	9.9	38.4	42.25	-0.0079	0.0005	43.4	83.0	0.0207	0.0019
$2014\overset{\circ}{\mathrm{G}}$	42.68	-0.0151	0.0006	15.4	36.4	42.39	-0.0091	0.0005	49.3	78.4	0.0341	0.0006
1987A	=	_	_	_	_	=	_	_	_	_	0.0750	0.0007
1990E	_	_	_	_	_	_	_	_	_	_	0.0653	0.0134
1999em	42.21	-0.0109	0.0004	3.0	34.4	41.91	-0.0014	0.0002	32.4	82.2	0.0536	0.0119
1999gi	42.02	-0.0090	0.0001	8.6	38.2	41.72	-0.0020	0.0002	50.2	100.5	0.0320	0.0023
2001X	42.02	-0.0053	0.0008	13.1	41.9	41.89	-0.0018	0.0001	49.0	86.8	0.0550	0.0047
2002hh	=	_	_	_	_	=	_	_	_	_	0.0316	0.0102
2003Z	41.19	-0.0071	0.0005	5.8	29.4	41.13	-0.0031	0.0003	56.7	100.7	0.0047	0.0002
2003hd	42.18	-0.0068	0.0010	9.3	44.3	42.02	-0.0030	0.0009	44.3	72.2	0.0361	0.0040
2003 hn	42.53	-0.0152	0.0007	20.8	42.8	42.08	-0.0048	0.0002	48.9	83.8	0.0324	0.0046
2004et	42.19	-0.0064	\inf	18.4	53.4	42.00	-0.0028	0.0002	53.4	84.3	0.0414	0.0086
2005cs	41.48	-0.0192	0.0005	4.3	22.3	41.03	0.0004	0.0001	28.4	79.2	0.0021	0.0002
2007it	_	_	_	_	_	_	_	_	_	_	0.0721	0.0175
2007od	42.59	-0.0148	0.0010	6.6	21.5	42.43	-0.0074	0.0002	28.5	69.2	0.0032	0.0006
2008fq	43.13	-0.0168	0.0013	12.6	33.6	42.80	-0.0077	0.0006	39.6	70.5	_	_
2008in	41.68	-0.0201	0.0021	4.9	34.7	41.23	-0.0056	0.0005	38.8	89.7	0.0037	0.0007
2009N	41.71	-0.0127	0.0007	10.7	26.6	41.43	-0.0012	0.0001	31.6	79.3	0.0165	0.0021
2009bw	42.51	-0.0164	0.0010	9.7	33.8	42.01	-0.0034	0.0004	53.8	116.2	0.0234	0.0017
2009dd	42.50	-0.0130	0.0008	11.2	46.1	42.18	-0.0055	nan	46.1	107.9	0.0466	0.0116
2009ib	41.77	-0.0069	0.0005	13.1	38.1	41.50	-0.0004	0.0002	59.0	109.8	0.0520	0.0162
2009 kr	42.23	-0.0168	0.0011	9.1	27.0	41.98	-0.0093	0.0010	49.1	75.8	0.0085	0.0002
2009 md	41.36	-0.0069	0.0006	18.0	35.5	41.26	-0.0030	0.0002	49.6	100.7	0.0044	0.0033
2012A	41.96	-0.0139	0.0012	9.5	28.4	41.66	-0.0042	0.0003	35.6	71.5	0.0087	0.0012
2012aw	42.23	-0.0096	0.0002	9.0	36.6	41.97	-0.0021	0.0001	41.0	102.9	0.0497	0.0059
2012ec	42.21	-0.0102	0.0007	11.2	36.3	41.93	-0.0020	0.0003	37.9	78.1	0.0394	0.0051

^{*} the slope is computed with the following equation: $Log10(Lum(t)) = Log10(Lum(0)) + S1 \times t$

Table D4: Bolometric MCMC light curve parameters

SN	T_{pt}	ΔT_{pt}	A0	A0+	A0-	W0	W0+	W0-	M0	M0+	M0-	P0
2013bu	102.8	4.5	-1.14330	0.00008	0.00011	3.85663	0.00011	0.00011	39.73643	0.00011	0.00010	-0.0038
2013fs	86.2	0.5	-0.60601	0.00010	0.00009	4.85452	0.00010	0.00010	41.17148	0.00010	0.00009	-0.0038
LSQ13dpa	129.9	2.0	-0.52529	0.00010	0.00009	4.60926	0.00010	0.00010	41.16555	0.00007	0.00010	-0.0038
$2014 \mathrm{cy}$	122.6	1.0	-1.17027	0.00009	0.00010	4.68129	0.00010	0.00010	39.92448	0.00010	0.00010	-0.0038
2014 dw	90.8	10.0	-0.75675	0.00011	0.00009	4.17129	0.00009	0.00009	40.51770	0.00011	0.00010	-0.0058
ASASSN-14dq	101.5	5.5	-0.65170	0.00010	0.00010	4.48552	0.00011	0.00011	41.06156	0.00011	0.00010	-0.0038
ASASSN-14gm	110.6	1.5	-0.58317	0.00012	0.00009	5.09893	0.00009	0.00009	41.21063	0.00011	0.00010	-0.0028
ASASSN-14ha	136.9	1.5	-1.29399	0.00010	0.00010	1.67183	0.00010	0.00010	39.38707	0.00011	0.00010	-0.0038
2015W	109.2	10.0	-0.50126	0.00009	0.00010	6.75293	0.00010	0.00010	40.97968	0.00012	0.00007	-0.0038
2013ab	102.0	1.0	-0.51427	0.00010	0.00008	3.78071	0.00010	0.00010	41.17435	0.00009	0.00010	-0.0038
2013by	85.8	2.0	-0.91657	0.00009	0.00010	5.65613	0.00009	0.00009	40.96187	0.00011	0.00010	-0.0038
2013ej	99.4	1.0	-0.72281	0.00010	0.00010	2.94088	0.00009	0.00009	40.75374	0.00010	0.00009	-0.0048
2014G	87.8	1.0	-0.71244	0.00010	0.00009	4.51613	0.00010	0.00010	40.99829	0.00011	0.00009	-0.0038
1999em	117.9	1.0	-0.57741	0.00008	0.00009	3.41479	0.00010	0.00010	41.06099	0.00009	0.00008	-0.0038
1999gi	126.6	3.1	-0.62125	0.00010	0.00010	4.55976	0.00010	0.00010	40.79945	0.00009	0.00009	-0.0038
2001X	114.5	5.0	-0.53832	0.00009	0.00010	4.38129	0.00010	0.00010	41.08004	0.00009	0.00009	-0.0038
2003Z	124.2	4.5	-0.71998	0.00009	0.00010	3.26323	0.00011	0.00011	39.99370	0.00010	0.00011	-0.0038
2003hn	107.3	4.0	-0.65753	0.00010	0.00009	2.53678	0.00012	0.00012	40.89828	0.00010	0.00009	-0.0038
2004et	123.5	4.0	-0.64942	0.00009	0.00011	6.01467	0.00011	0.00011	40.96975	0.00011	0.00009	-0.0038
2005cs	125.8	0.5	-1.22037	0.00010	0.00010	1.93610	0.00010	0.00010	39.64530	0.00011	0.00011	-0.0038
2008in	107.6	1.0	-0.71691	0.00009	0.00011	1.94207	0.00010	0.00010	39.94404	0.00009	0.00010	-0.0038
2009N	108.1	1.2	-0.60762	0.00008	0.00009	2.34563	0.00010	0.00010	40.59108	0.00010	0.00011	-0.0038
2009bw	135.5	3.0	-0.85874	0.00011	0.00010	1.51075	0.00009	0.00009	40.63664	0.00009	0.00010	-0.0038
2009dd	118.3	5.0	-0.56500	0.00011	0.00010	4.44222	0.00009	0.00009	41.02448	0.00010	0.00010	-0.0038
2009ib	140.2	2.0	-0.35851	0.00010	0.00010	2.69334	0.00009	0.00009	40.96322	0.00010	0.00010	-0.0038
2009 kr	90.0	2.0	-0.87569	0.00010	0.00010	4.34359	0.00012	0.00012	40.36315	0.00008	0.00011	-0.0054
2009 md	117.8	8.0	-0.93139	0.00010	0.00009	2.61584	0.00010	0.00010	39.93533	0.00011	0.00011	-0.0038
2012A	106.2	2.0	-0.90870	0.00009	0.00008	4.45165	0.00010	0.00010	40.29491	0.00010	0.00011	-0.0038
2012aw	135.2	4.0	-0.60089	0.00011	0.00011	7.49323	0.00011	0.00011	41.02130	0.00011	0.00011	-0.0038
2012ec	110.6	5.0	-0.67027	0.00010	0.00010	9.74179	0.00010	0.00010	40.98082	0.00010	0.00010	-0.0038

SN Δt_{pt} a0+a0m0+a0w0w0+w0m0m0p0 t_{pt} 2013bu 103.1 4.53.08170 0.158000.142933.51516 0.60600 0.6060720.27520 0.149600.136690.0120 $2013 \mathrm{fs}$ 82.70.51.598630.099000.072142.277692.473202.4732918.764800.131600.081280.0120 LSQ13dpa 128.72.01.715740.07200 0.072414.673270.546400.5464820.36860 0.07000 0.07038 0.00422014dw91.3 10.0 1.755770.05500 0.054703.37373 0.387600.3876319.83370 0.05320 0.050960.0260 ASASSN-14dq 101.0 1.586850.02900 0.030443.34375 0.277800.2778218.73570 0.019900.019850.0127 5.5ASASSN-14gm 110.6 1.5 1.654920.03800 0.040325.95449 0.512200.5122817.020600.01440 0.021530.0082 ASASSN-14ha 136.8 1.53.357480.11900 0.113851.36023 0.166400.1664419.12990 0.11430 0.110780.0120 2013ab 101.8 1.0 1.420750.01300 0.01308 3.28386 0.137700.1377717.186700.01040 0.010220.01072013by 85.4 2.0 2.386990.045000.044464.593980.418100.418130.029400.029510.0120 17.194402013ej 98.8 1.0 2.237730.03900 0.039373.411560.327500.3275616.354700.032400.03192 0.0134 2014G1.34118 0.04700 0.044642.66318 0.303600.3036117.82740 0.042400.041370.0238 87.51.0 1986L110.8 6.0 0.973840.134000.104373.52309 3.704903.7049016.723200.170900.122740.0301 1979C 55.615.00.549480.02400 0.023512.556710.596400.5964913.82830 0.034100.031100.02771992ba 125.58.0 1.87475 0.03700 0.033955.33330 0.765500.7655117.97920 0.02590 0.025090.00861.60486 2.826460.799800.03590 0.034091999em 118.1 1.0 0.041000.040350.7998116.14400 0.0115 1999gi 127.8 3.1 1.95904 0.102000.08906 5.56184 1.06340 1.06342 17.36290 0.06980 0.06503 0.0092 2001X114.7 5.0 1.400320.03300 0.032164.102160.310900.3109617.278100.033700.032650.0131 21.58200 2002hj 99.77.02.132500.00000 0.000106.56108 0.000100.000129.00910 9.840510.01412003T 103.9 10.0 1.308590.04900 0.048602.56083 0.269600.2696121.22110 0.050400.052850.0202 2003bn 118.9 3.0 1.848790.00000 0.000104.44229 9.67260 9.6726719.85290 0.00010 0.00010 0.0120 2003cx92.41.057019.52700 0.000100.19338 8.95750 8.95759 21.19450 0.000109.463310.0120 5.0 2003hd96.55.0 2.310350.07900 0.074463.02649 1.39710 1.3971421.96160 0.07550 0.072250.00722003hn1.769989.55500 9.304092.33249 9.580909.5809217.37200 9.539709.723470.0128 106.9 4.04.520659.80470 9.40875 2003iq 102.1 2.0 1.61370 0.00000 8.35990 9.8047318.11550 0.00010 0.0120 1.34839 0.108000.09203 7.681561.107601.1076319.65000 0.094622004er146.62.0 0.108100.0120 2004fx 102.8 4.0 1.90191 0.047000.048044.12092 0.346600.3466619.98650 0.02290 0.023740.0088 2005cs126.00.53.832980.04800 0.047092.314550.248900.2489219.12080 0.047900.046340.00862006Y 4.2871166.84.01.74803 0.230000.152031.10340 1.10348 21.226200.230800.153810.0120 72.4 1.491170.00000 3.46120 0.000100.00010 0.000109.826482006ai 5.0 8.95440 19.36580 0.01772007ab 78.6 10.0 0.771270.00000 0.000103.37229 0.00010 0.0001020.72720 9.22350 0.00011 0.0231 2007it10.0 1.235740.01300 0.012914.291370.205700.2057115.58930 0.005600.004920.0100 113.10.027152008M85.79.0 2.051150.03200 0.031932.67883 0.394600.39467 18.95140 0.02770 0.0116 2008K95.3 4.0 1.558009.32200 0.000106.73933 9.847109.8471721.51660 0.000100.000100.0186 87.6 10.0 0.01800 0.01873 5.31038 0.503400.5034518.85360 0.03400 0.035010.0197 2008aw1.40924 1.678510.02800 0.027724.796720.236400.2364118.90100 0.02550 0.02617 0.0120 2008if 84.55.0 2008in 108.0 1.0 2.812720.09100 0.089353.38508 0.564500.5645820.17500 0.07820 0.07636 0.00472009N 108.3 1.2 1.895380.02700 0.027572.838980.210800.2108518.72150 0.024400.023760.0084 2009bw 135.2 3.0 2.270810.03700 0.03802 1.51786 0.191900.19193 18.84930 0.02970 0.02921 0.0133 2009ib140.1 2.0 1.23238 0.02900 0.030364.161220.233400.23340 17.76620 0.029000.02901 0.008088.2 2.0 2.257290.107000.113733.76747 0.56320 0.56321 19.67400 0.106800.101480.0200 2009kr 8.0 2.607118.84000 9.734491.93493 9.638809.6388320.55390 9.991209.819240.0120 2009md 118.02012A 106.5 2.0 2.716210.08500 0.084514.775390.450800.4508917.67180 0.08000 0.078540.00812012aw135.2 4.0 1.74817 0.02300 0.021057.49308 1.42810 1.42813 15.87580 0.01600 0.01438 0.0095 2012ec 107.9 5.0 1.57489 9.62000 8.10385 4.81188 9.68530 9.68539 17.30550 8.60480 9.96944 0.0135

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