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NOVA LIGHT CURVES FROM THE SOLAR MASS EJECTION IMAGER (SMEI) - II. THE EXTENDED CATALOG

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ABSTRACT

We present the results from observing nine Galactic novae in eruption with the Solar Mass Ejection Imager (SMEI) between 2004 and 2009. While many of these novae reached peak magnitudes that were either at or approaching the detection limits of SMEI, we were still able to produce light curves that in many cases contained more data at and around the initial rise, peak, and decline than those found in other variable star catalogs. For each nova, we obtained a peak time, maximum magnitude, and for several an estimate of the decline time (t_2). Interestingly, although of lower quality than those found in Hounsell *et al.* (2010a), two of the light curves may indicate the presence of a pre-maximum halt. In addition the high cadence of the SMEI instrument has allowed the detection of low amplitude variations in at least one of the nova light curves.

Subject headings: novae, cataclysmic variables – space vehicles: instruments – techniques: photometric

1. INTRODUCTION

Classical Novae (CNe) belong to the Cataclysmic Variable (CV) class of objects. These are interacting close binary systems in which mass is transferred from a donor star to the surface of an accreting compact companion leading to a variety of behaviors, the most noticeable of which is an eruption (see Bode and Evans 2008; Bode 2010, for reviews).

A typical CN system consists of a white dwarf (WD) primary and a cooler lower mass main sequence secondary star (spectral type ranging from F to M; Darnley *et al.* 2012). As the secondary evolves it fills its Roche lobe allowing hydrogen rich material to transfer at a rate of $10^{-11} - 10^{-9} M_{\odot} \text{ yr}^{-1}$ via the inner Lagrangian point (L1) toward the WD and form an accretion disc. Material is deposited from the disk onto the surface of the WD, causing the bottom of the accreted layer on the WD to become electron degenerate. Within this degenerate layer hydrogen burning ensues leading to a thermonuclear runaway (TNR) and ultimately the CN eruption. The total radiant output of a single CN eruption is in the range of $10^{45} - 10^{46}$ erg with TN-outburst amplitudes of approximately 10–20 magnitudes, and absolute V -band magnitudes of $M_V = -10.7$ at maximum for the fastest and most luminous CNe (Shafter *et al.* 2009, and references therein). The resulting energy released is sufficient to expel the accreted envelope and drive mass loss ($10^{-5} - 10^{-4} M_{\odot}$, Goss *et al.* 2011) at velocities of a few hundred to several thousand km s^{-1} . All CNe are thought to have repeat eruptions (although for some this

may take up to $10^4/10^5$ years, Hernanz 2005) however, a CN observed in TN-outburst more than once is reclassified as a recurrent nova (RN); observed recurrence times range from 1-100 years (Darnley *et al.* 2014, 2015), or even as short as six months (Henze *et al.* 2015), with TN-outburst amplitudes typically smaller than CNe (≈ 5 -6 magnitudes if the secondary is giant, 10-15 if a main sequence star). The basic triggering and explosion mechanism of a RN is the same as for a CN, but there are some distinct differences in the physical properties of this subgroup. In order to reconcile the short quiescence period of a RN with a TNR the WDs within these systems are believed to be hotter, more massive (close to the Chandrasekhar 1931, limit), and have higher mass accretion rates ($\sim 10^{-8} - 10^{-7} M_{\odot} \text{ yr}^{-1}$) than CNe (see Yaron *et al.* 2005; Wolf *et al.* 2013). The majority of RN systems also harbor evolved secondary stars rather than the typical main sequence star of a CN system (see, for example, Darnley *et al.* 2012).

As with most transients, CNe are traditionally classified according to their photometric and spectroscopic properties. Each nova has its own unique optical light curve. However, they do share a common idealized nova light curve (McLaughlin 1960). Most novae tend to rise rapidly to peak within one to three days. Due to the transient nature of a nova this initial rise has rarely been observed well enough to establish any classification regime, but the subsequent decline from maximum has. Novae tend to be classified according to the number of days that they take to decline n magnitudes from maximum, thus they are divided into “speed classes”. These classes

were first introduced by Gaposchkin (1957), and often declines of two or three magnitudes are quoted (t_2 and t_3 respectively).

During the initial rise, novae are thought to experience a pre-maximum halt (PMH) approximately one to two magnitudes below maximum (McLaughlin 1960). The duration of this halt appears to be related to the speed class of the nova, lasting a few hours for fast novae and a few days for slow novae. Until recently the PMH had only been observed for a few slow novae such as DQ Her, V450 Cyg (Payne-Gaposchkin 1964), V723 Cas, V463 Sct (Hachisu and Kato 2004, who present a new interpretation of the observed long PMHs), and V5558 Sgr (Tanaka *et al.* 2011) with no strong evidence to suggest that it was also present for the faster speed classes. Hounsell *et al.* (2010a, hereafter Paper I) however, found from SMEI observations that for all very fast/fast novae (classical and recurrent) studied in detail in that paper, a PMH was detected with a duration consistent with their speed class. The PMHs of the very fast novae observed in Paper I consisted of 3-4 SMEI data points in which a temporary reversal of the light curve was suggested and its duration was calculated as the time between the first and third change in gradient of the slope. The PMH of the one fast nova detected (V1280 Sco) was represented by a plateau in the light curve and made up of 7 SMEI data points. Here the PMH duration was taken as the time between the first and second change of gradient. If a slower nova were to have been detected within the SMEI data we might expect a similar plateau.

Although there is now evidence for the existence of this phase of evolution in the nova light curve, no physical explanation for the PMH is currently accepted although several theories exist. Williams (2012) suggests that a PMH lasting a day or more may be caused by an enhancement of mass loss from the secondary star, which then dominates over the initial WD ejecta. This changeover in the dominance of the two mass loss sources could be the cause of the halt. Other work by Hillman *et al.* (2014) has used nova evolution simulations (via a hydrodynamic Lagrangian code) to create detailed light curves, and find that halts of long or short duration occur naturally within the burst. Examining the evolution of nova effective temperature (T_{eff}), luminosity, and radius they find that at a point just before expansion and mass loss occur, that the T_{eff} decreases and the rising luminosity halts. Their work also found that this halt would in many cases be accompanied by a dip in the total luminosity. Such a dip is due to a temporary drop in the energy flux as convection in the expanding and thinning envelope ceases to be efficient near the envelope surface. Because of the decreasing opacity of the envelope, radiation soon dominates over convection thus reversing the dip. Work by Hillman *et al.* (2014) and Williams (2012) are both WD mass dependent.

The majority of Galactic novae are still discovered by the amateur community. Over the past century various surveys have attempted to measure the Galactic rate, however results are greatly affected by temporal and spatial coverage, selection effects, and interstellar extinction. Based on an extrapolation of the observed nova rates in the solar neighborhood (assumed complete to $m < 2$), Shafter (1997) estimated a Galactic nova rate of approximately 35 yr^{-1} , this is supported by Darnley

et al. (2006) with a value of $34_{-12}^{+15} \text{ yr}^{-1}$. Of these an average of roughly one CN per year has been *observed* to reach $m_V = 8$ or brighter (see Figure 2 of Shafter 2002). It is well known that novae with the highest peak bolometric luminosity fade the most rapidly and are thus often missed; historical observations are therefore clearly incomplete at $m_V = 8$ and the actual number of novae reaching this brightness is expected to be significantly higher ($\sim 5 \text{ yr}^{-1}$, see Shafter 2002; Warner 2008, and discussion in Paper I).

With the advent of all-sky imaging facilities, both ground and space-based, there is new hope for detecting a more complete sample of Galactic novae. Although the detection of transient events may not be the original science objective of these missions, their archives hold a wealth of data on many events. These observations may contain great detail and provide data on many previously poorly examined and understood phases of evolution. Examination of these archives is therefore exceptionally important. One such space-based all-sky mission is the Solar Mass Ejection Imager (SMEI), its usefulness in observing novae was well documented in Paper I, Hounsell *et al.* (2010b, 2011, 2012), Surina *et al.* (2014), and Darnley *et al.* (2013).

SMEI is a high precision white light differential photometer (Buffington *et al.* 2006, 2007) based on board the Coriolis solar satellite. SMEI was in operation from January 2003 (Eyles *et al.* 2003; Jackson *et al.* 2004) until September 2011. The instrument consists of three baffled CCD cameras each with a $60^\circ \times 3^\circ$ field of view, combining to sweep out nearly the entire sky with each 102 minute orbit of the spacecraft (Hick *et al.* 2007). The peak throughput of the instrument is at approximately 700 nm with a FWHM ~ 300 nm. SMEI is able to reliably detect brightness changes in point sources down to at least 8^{th} magnitude.

SMEI was originally designed to map out large-scale variations in heliospheric electron densities by observing the Thomson-scattered sunlight from solar wind electrons (Jackson *et al.* 2004). In order to isolate the faint Thomson-scattered sunlight, the much larger white-light contributions from the zodiacal dust cloud, the sidereal background, and individual point sources (bright stars and planets) were determined and removed (see Hick *et al.* 2007, for further details). Thus, brightness determination of point sources is a routine step in the SMEI data analysis, and as such has led to the production of detailed light curves for many bright objects including variables (see Buffington *et al.* 2006; Spreckley and Stevens 2007; Tarrant *et al.* 2007, 2008a,c,b; Clover *et al.* 2011; Goss *et al.* 2011; Surina *et al.* 2014, and Paper I for example).

This paper presents results from the examination of nine additional Galactic novae observed by SMEI. These novae are fainter than the four presented in Paper I and indicate the limit of SMEI's ability to detect brightness changes at fainter magnitudes and in crowded regions. In Section 2 we explain how data were obtained and analyzed. Section 3 presents our results, and a discussion along with our conclusions are provided in Section 4.

2. DATA ANALYSIS

The SMEI database contains a catalog with the names, co-ordinates, and discovery magnitudes of 62 Galactic

CNe and 3 RNe, with eruptions dating between 2003 and 2011. The photometry of each nova in this paper was obtained using this catalog and an extended iterative least-squares fit of the point spread function (PSF) as described in Hick, Buffington, and Jackson (2005); Hick *et al.* (2007); and Section 2 of Paper I. Zodiacal and sidereal background light contributions were also considered during the fitting stage. The remaining 51 novae not examined as part of this paper, Surina *et al.* (2014), or Paper I were either too faint for detection or resided in fields far too crowded for reliable results to be obtained.

As noted in Paper I, the SMEI PSF has a full width of approximately 1° and is highly asymmetric with a “fish-like” appearance. Due to this large size an object of interest is considered crowded when it lies less than one PSF width from another bright object (typically 6^{th} magnitude or brighter); such crowding within the SMEI data is commonplace. To combat this issue simultaneous fitting of multiple objects can be initiated where possible (stellar separation $>0.75^\circ$) and contamination of the object of interest reduced.

In order to achieve the best fit and produce the most reliable nova light curve, the surrounding region of each object required assessment for levels of potential contamination due to crowding, cosmic-ray hits, and finally their proximity to the Sunwards and anti-Sunwards masks (see Buffington *et al.* 2006, 2007, for a description of these masks). If the nova was in a crowded field, a simultaneous fit was conducted and the area used to sample the surrounding stellar region (wing radius) from the PSF centroid reduced. The reduction of the wing radius also reduces errors if the object is located near a masked region. For these reasons multiple light curves were generated for each nova using an *auto_wing*¹ radius and wing radii of 1.2° , 1.3° , and 1.4° . The resulting photometry files were then assessed on several criteria: 1. correlation of the fitted PSF to the model – sample Pearson correlation coefficient (r); 2. the number of pixels used to define the PSF fitting area – often an indicator of masks or image defects (*npsf*); 3. variation of the background fitted value; 4. deviation of the RA and dec from the catalog position – jumps can be an indication of the fitting of a residual from the poor subtraction of a neighboring star, this becomes more of an issue as the nova fades.

Within Paper I, points possessing $r \geq 0.5$ were deemed reliable. However, as the novae presented here are much fainter, a less stringent cut off of 0.4 was found to be acceptable. A 1σ threshold was applied to the other selection criteria listed above (in some cases a 3σ cut off was applied if the object was detected only a few times by the instrument, or if the initial RA and dec were uncertain). Using the filtered file which possessed the highest number of “valid” points, the flux of the nova was then converted into an unfiltered SMEI apparent magnitude (m_{SMEI}), and its error contribution calculated from photon counting statistics.

3. RESULTS

¹ This is defined by the following equation: $\text{auto_wing} = 0.1 \times (3 - m_{\text{SMEI}}) + 1.4$ (degrees), where m_{SMEI} is the magnitude listed for the nova within the catalogue and is often the discovery magnitude only. For novae of interest *auto_wing* is approximately 1° .

As noted above, the novae presented in this paper are much fainter than those given in Paper I, all of which possessed a peak $m_{\text{SMEI}} < 5.5$. The objects within this paper have peak magnitudes between 6 and 8, fainter than this detection is unreliable. The light curves derived, although more noisy than those in Paper I, have nonetheless provided precise measurements of peak time, eruption magnitude, and in many cases a value for t_2 . Table 1 summarizes our main findings, and the individual novae are discussed below. Novae which possess the most interesting data are presented first, with the remaining given in order of eruption date. Where possible a light-curve for each nova has been presented, with a legend for all data given in Figure 1. An appendix tabulating the available photometry for each nova examined is included at the end of the paper.

3.1. V597 Puppis

Nova V597 Pup ($\alpha = 08^{\text{h}}16^{\text{m}}18^{\text{s}}.01$, $\delta = -34^\circ15'24''.1$; J2000) was discovered in TN-outburst by Pereira *et al.* (2007) at a visual magnitude of 7.0 on 2007 November 14.23 UT (MJD 54418.23), reaching a peak visual magnitude of $m_V = 6.4$ on 2007 November 14.48 UT (MJD 54418.48, green cross within Figure 2). The nova then declined rapidly with a $t_2 = 2.5$ days (Naik, Banerjee, and Ashok 2009), making it one of the fastest novae recorded. Naik, Banerjee, and Ashok (2009) classified the nova as a He/N-type with a WD close to the Chandrasekhar limit. A pre-eruption detection is found within the Digitized Sky Survey (Pereira *et al.* 2007) with a source at $V \sim 20$, that coincides with the nova position. Continued monitoring of the object by Warner and Woudt (2009) revealed the nova as an intermediate polar (IP) in the orbital period gap ($P_{\text{orb}} = 2.67$ hrs), with a rotational period of 8.7 minutes. Observation of the object a year after eruption also revealed the presence of a deep secondary eclipse caused by the passage of the optically thick accretion disc in front of the irradiated side of the secondary star. The object is considered unique as it is the first CV found to have this deep an eclipse.

The light curve created using the SMEI data set covers the latter part of the initial rise, peak, and early decline (see Figure 2). There does appear to be one data point on 2007 November 7.04 UT (MJD 54407.04) at $m_{\text{SMEI}} = 9.57 \pm 0.13$, however the r of this point is only 0.34 and thus not reliable. All data after this point and up to the initial rise possess an r less than 0.3 and are therefore omitted from Figure 2, and further discussion. Examination of the initial rise hints at the possibility of a PMH starting on 2007 November 13.63 UT (MJD 54417.63) and lasting several hours with a mean $m_{\text{SMEI}} = 8.07 \pm 0.14$ (defined as the mean magnitude over the duration of the halt; quoted error is the rms scatter). As in Paper I, the duration of the halt for this object is taken to be the time between the first and third changes in gradient of the rising light curve, and is appropriate for the speed class of the nova. It should be noted however that the first two points of this halt have $r < 0.4$ (actual values are 0.39 and 0.35 respectively, this lower r is due in part to the limiting magnitude of SMEI) and as such the reality of this PMH can not be confirmed. There is then a gap in the data lasting several hours due to the SMEI weekly calibration, after which the nova is seen to reach its maximum intensity of $m_{\text{SMEI}} = 6.91 \pm 0.04$ on

Table 1

Derived light curve parameters of 14 novae using data from the Solar Mass Ejection Imager. The last five novae listed represent objects reported within Hounsell *et al.* (2012); Surina *et al.* (2014) and Paper I. Novae in this paper tend to be fainter than those in Paper I, and as such we were unable to obtain in most cases all parameters listed in the table.

Name	Time of maximum (yyyy/mm/dd)	Peak SMEI magnitude	t_2 (days)	Speed class ^a	Pre-max duration (days) ^b	Pre-max mean magnitude	Δm_{SMEI} from halt to peak ^c	Δt from halt to peak (days)	Wing radius (deg)
V1187 Sco	2004/08/3.77 ^{+0.07} _{-0.04}	6.95±0.04	10.10 ^{+0.43} _d	Very fast	...	...	...	...	1.3
V2467 Cyg	2007/03/16.56±0.04	6.30±0.03	5.68 ^{+0.39} _d	Very fast	...	...	...	...	1.3
V458 Vul	2007/08/13.66±0.04	7.94±0.07	...	Fast	...	...	...	...	<i>auto-wing</i>
V597 Pup	2007/11/14.68 ^{+0.94} _{-0.35}	6.91±0.04	2.81 ^{+1.0} _{-0.90} ^d	Very fast	0.21	8.07±0.14	1.16	0.96	1.3
V459 Vul	2007/12/28.11 ^{+0.11} _{-0.07}	6.59±0.04	~19.4 ^e	Fast	...	...	...	...	1.2
V2491 Cyg	2008/04/10.89±0.04	7.36±0.05	...	Very fast	...	...	...	...	1.2
QY Mus	2008/09/28.63±0.2	6.93±0.04	...	Moderately fast	...	...	...	...	1.2
V5580 Sgr	2008/11/30.85	7.01±0.04	...	...	...	...	...	...	<i>auto-wing</i>
V5583 Sgr	2009/08/7.08±0.04	6.94±0.05	...	Very fast	0.21	7.64±0.03	0.71	1.10	1.4
T Pyx ^f	2011/05/12.22±0.04	6.33±0.03	...	Slow	~10	~8.1	~1.8	14.6	...
RS Oph	2006/02/12.94±0.04	3.87±0.01	7.9	Very fast	0.14	4.50±0.05	0.63	0.49	1.25
V1280 Sco	2007/02/16.15±0.04	4.00±0.01	21.3	Fast	0.42	5.231±0.003	1.23	0.49	1.25
V598 Pup	2007/06/6.29±0.04	3.46±0.01	4.3	Very fast	0.28	5.2±0.1	1.74	2.19	1.4
KT Eri	2009/11/14.67±0.04	5.42±0.02	6.6	Very fast	0.14	6.04±0.07	0.63	0.71	1.25

^a V1187 Sco - Lynch *et al.* (2006); V2467 Cyg - Lynch *et al.* (2009); V458 Vul - Wesson *et al.* (2008); V597 Pup - Naik, Banerjee, and Ashok (2009); V459 Vul - Poggiani (2010); V2491 Cyg - Munari *et al.* (2011) & Darnley *et al.* (2011); QY Mus - Schwarz *et al.* (2011); V5583 Sgr - Schwarz *et al.* (2011)

^b Here the duration of the halt is taken to be the time between the first and third change in gradient of the rising light curve for very fast novae. For fast and moderately fast it is the first and second change.

^c Δm_{SMEI} from halt to peak is calculated using the mean magnitude of the PMH.

^d Based on a linear fit of the initial decline data from the SMEI nova light curve (see text for further details).

^e Using linear extrapolation between the first and last data point of the SMEI light curve (see text for further details).

^f Here all data have been taken from Surina *et al.* (2014). Within this work the PMH was suggested to have lasted for ≈ 10 days with magnitudes varying between 7.7 and 8.5, hence a mean magnitude of 8.1 was quoted in the above table. The time between halt and peak was also taken, in this case, from the end of the PMH phase.

2007 November 14.68^{+0.04}_{-0.35} UT (MJD 54418.68). This coincides better with the R -band magnitude of 6.7 on 2007 November 14.48 UT (MJD 54418.48) given in Pereira *et al.* (2007, red cross within Figure 2) than the V -band data quoted above. Note however, it is possible that the peak nova brightness actually occurred in the data gap caused by the weekly calibration. This uncertainty has been included in the quoted time of maximum. The decline of the nova is shown by SMEI to be exceptionally fast, but given the scatter off the data around 8/9th magnitude a direct measurement of t_2 could not be made. However, assuming that the data can be modeled by a simple linear decline (as is often seen in the early stages of nova light curves) we derived an approximate t_2 time of 2.81^{+1.0}_{-0.9} days (error quoted is statistical only and was obtained using the uncertainties of the fitted gradient and intercept). This is similar to the value given by Naik, Banerjee, and Ashok (2009), confirming the very fast classification. Within Figure 2, the SMEI light curve is also compared to AAVSO data (V -band) and data (B , V , R and I -band) from The STONY BROOK/SMARTS Atlas of (mostly) Southern Novae² (hereafter referred to as the Nova Atlas; see Walter *et al.* 2012, for a full description) within the same time frame.

3.2. V5583 Sagittarii

Nova V5583 Sgr ($\alpha = 18^h 07^m 07^s 67$, $\delta = -33^\circ 46' 33'' 9$; J2000) was observed by both SMEI and the Solar TERrestrial RElations Observatory (STEREO) Heliospheric Imager (Eyles *et al.* 2009). A review of STEREO observations for this object can be found in Holdsworth *et al.*

² <http://www.astro.sunysb.edu/fwalter/SMARTS/NovaAtlas/>

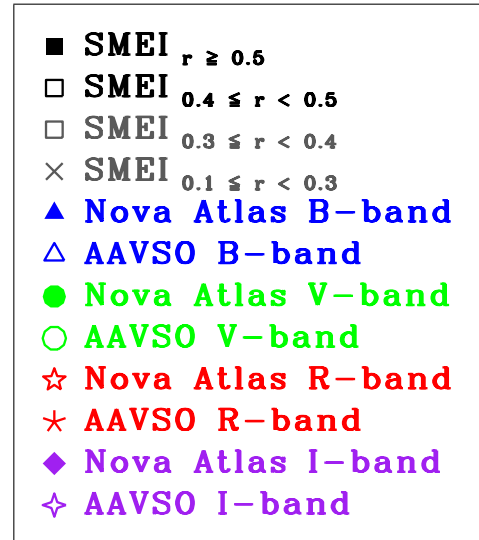


Figure 1. Legend for all data in following figures.

(2014).

V5583 Sgr is a very fast CN which was discovered by Nishiyama *et al.* (2009) at a magnitude of 7.7 on 2009 August 6.49 UT (MJD 55049.49), it then rose to maximum on 2009 August 7.57 UT (MJD 55050.57) at $m_V = 7.43$. An approximate t_2 time of 5 days is given by Schwarz *et al.* (2011).

The nova was detected by SMEI on 2009 August 1.16 UT (MJD 55044.16) at $m_{\text{SMEI}} = 8.60 \pm 0.10$. There is then a gap in the data due to a combination of low r and n_{psf} values lasting until August 5.67 UT (MJD 5548.67) after which it then rises (Figure 3) to a peak magnitude

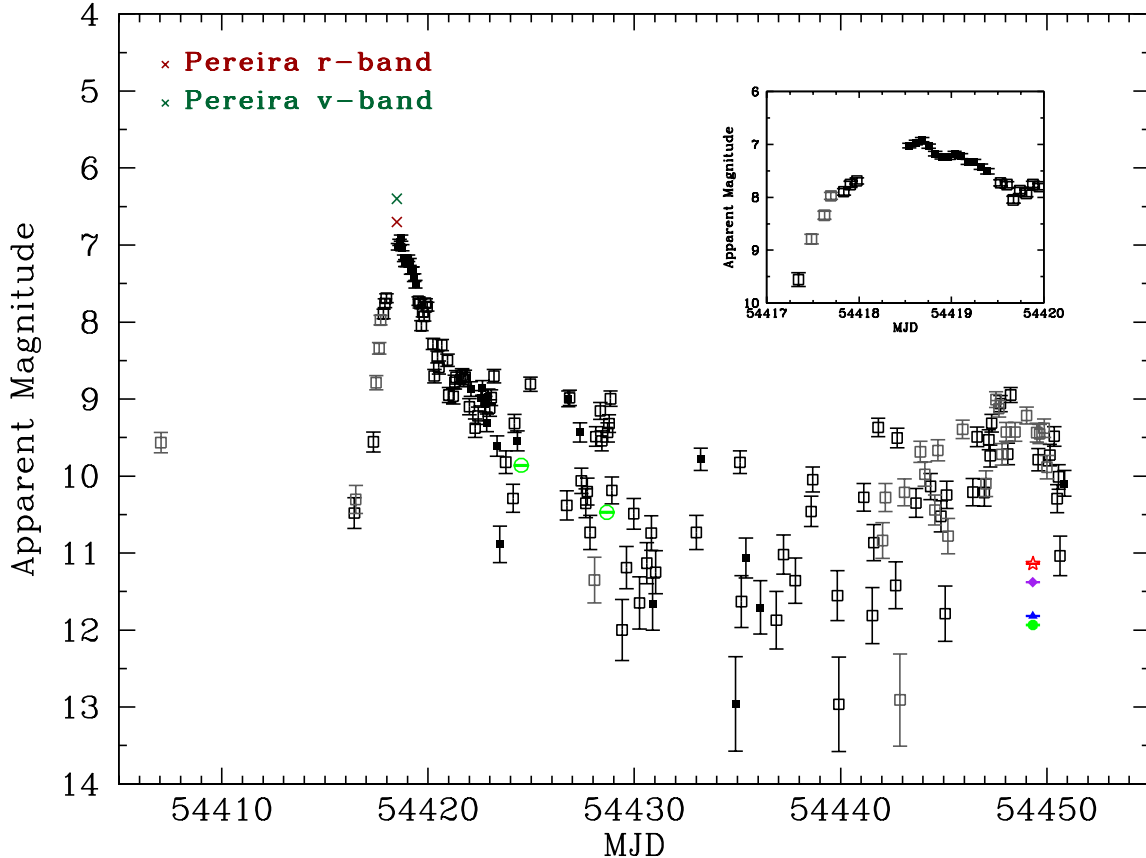


Figure 2. Optical light curves of V597 Pup. SMEI data with a lower r than optimal have been included for completeness. Nova Atlas data which coincide with the SMEI light curve have been included along with data from the AAVSO (see Figure 1 for data legend). Green and red crosses represent the peak V and R -band data given within Pereira *et al.* (2007). The inset shows the final rise, peak, and initial decline of the nova in the SMEI data only, which may show evidence for a PMH around MJD 54417.63.

of $m_{\text{SMEI}} = 6.94 \pm 0.05$ on 2009 August 7.08 ± 0.04 UT (MJD 55050.08). The timing of this peak coincided nicely with that presented in Holdsworth *et al.* (2014, the STEREO peak is given as $m_{\text{HI}} = 7.18 \pm 0.06$ on 2009 August 7.04 ± 0.17 UT, MJD 55050.04), however the timing of both the SMEI and STEREO peaks are earlier than that given by Nishiyama *et al.* (2009), suggesting that the maximum was previously missed.

A PMH may be present in the SMEI data around 2009 August 5.98 UT (MJD 55048.98) at an average $m_{\text{SMEI}} = 7.64 \pm 0.03$ (defined as the mean magnitude over the duration of the halt; quoted error is the rms scatter). Unfortunately, the feature is derived from data with a much lower r than optimal (r values are 0.23, 0.26, and 0.26 respectively) and is therefore unreliable. However, it should be noted that Holdsworth *et al.* (2014) also find evidence of PMHs around this time. Holdsworth *et al.* (2014) define a PMH as a decrease in the brightness during the rise phase of the nova eruption and detect three possible events, the first on MJD 55048.88 ± 0.08 at $m_{\text{HI}} = 8.38 \pm 0.09$, the second on MJD 55049.13 ± 0.08 at $m_{\text{HI}} = 8.05 \pm 0.10$ (which when taking into consideration timing definitions, coincides with the SMEI PMH), and the third on MJD 55049.29 ± 0.08 at $m_{\text{HI}} = 7.89 \pm 0.08$

(see Figure 4). This third halt is also seen in the SMEI light curve at an average $m_{\text{SMEI}} = 7.18$. However it is only ~ 0.25 magnitudes below maximum and is not within the range that has generally been proposed for a PMH.

Approximately one day after maximum the object then seems to enter a “plateau” phase which lasts for 1.6 days with an average $m_{\text{SMEI}} = 7.56$, after which it declines. Again it should be noted that these data have a correlation coefficient much less than optimal ($0.1 \leq r < 0.3$), and are less reliable. The discrepancy between the SMEI and STEREO light curves especially at late times is clearly evident and due to the reduced quality of the SMEI data ($r < 0.3$) throughout the nova eruption. Therefore, the $r < 0.3$ SMEI data are less reliable and complementary to the STEREO data when obtained simultaneously.

3.3. V1187 Scorpii

Nova V1187 Sco ($\alpha = 17^{\text{h}}29^{\text{m}}18^{\text{s}}81$, $\delta = -31^{\circ}46'01''5$; J2000) was discovered prior to peak at $m_V = 9.9$ on 2004 August 2.07 UT (MJD 53219.07) using data from the All Sky Automated Survey (ASAS)-3 patrol (Pojmanski, Pilecki, and Szczygiel 2005). It subsequently rose to a

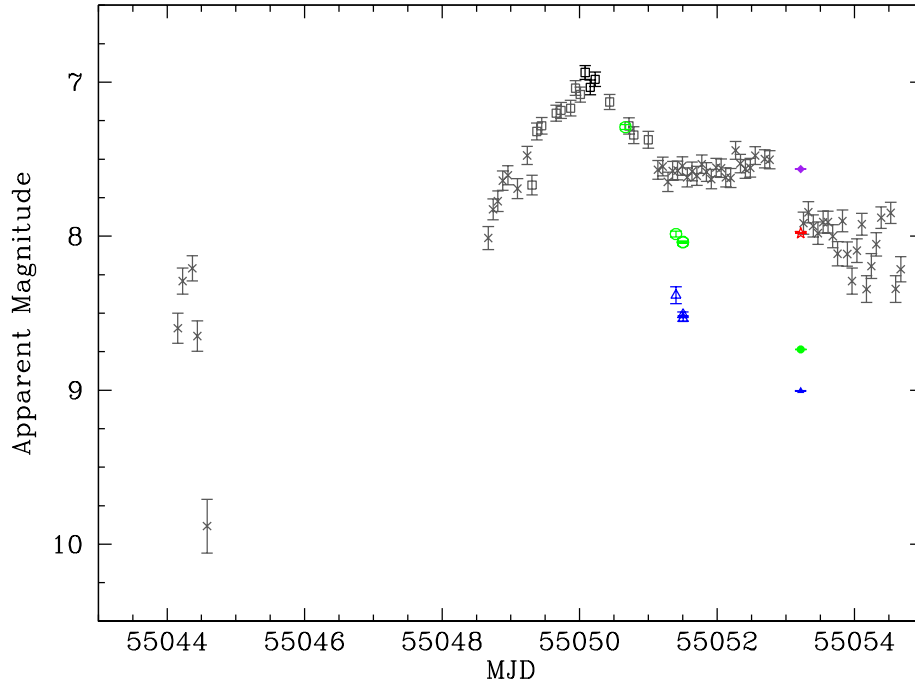


Figure 3. Optical light curves of V5583 Sgr. SMEI data with a lower r than optimal have been included for completeness. Nova Atlas data which coincide with the SMEI light curve have been included along with data from the AAVSO (see Figure 1 for data legend).

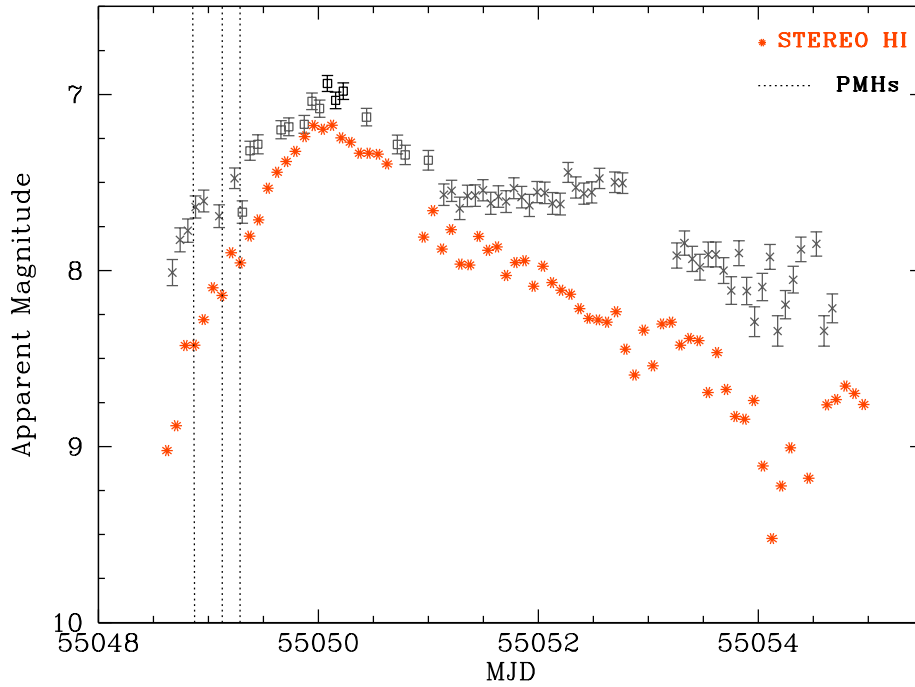


Figure 4. Optical light curves of V5583 Sgr. SMEI data with a lower r than optimal have been included for completeness. The STEREO HI data is given by orange points, the uncertainty of which is 0.06 magnitudes above 10^{th} magnitude. The dotted black lines indicate PMHs suggested in STEREO data (Holdsworth *et al.* 2014), the second of which coincides with that suggested by the SMEI light curve around MJD 55048.98.

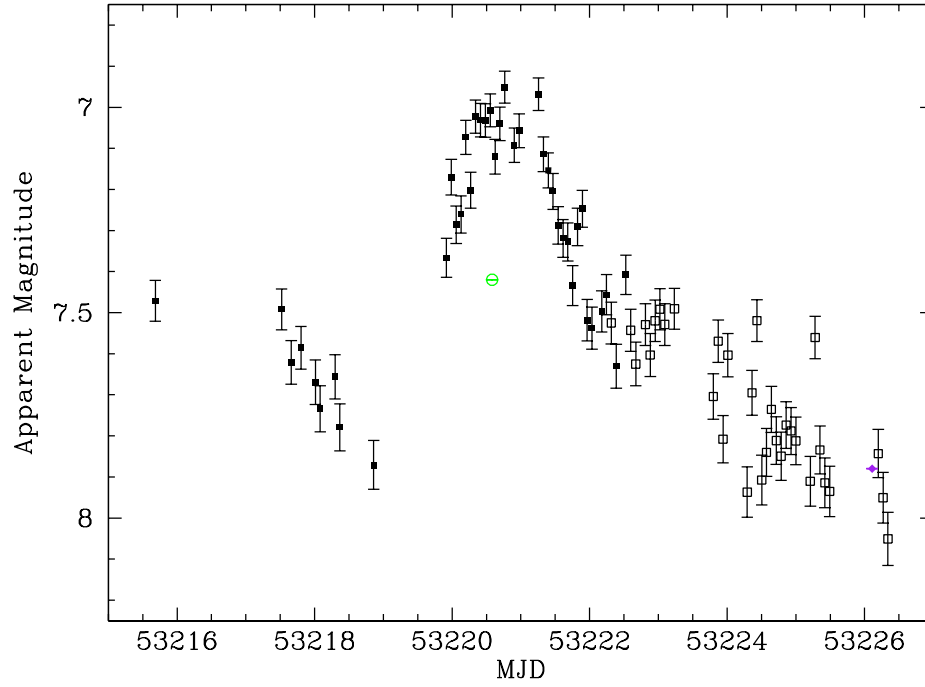


Figure 5. Optical light curves of nova V1187 Sco. Nova Atlas data which coincide with the SMEI light curve have been included along with data from the AAVSO (see Figure 1 for data legend). It is likely that the SMEI data presented here are contaminated by light from neighboring bright stars, and as such should be treated with caution.

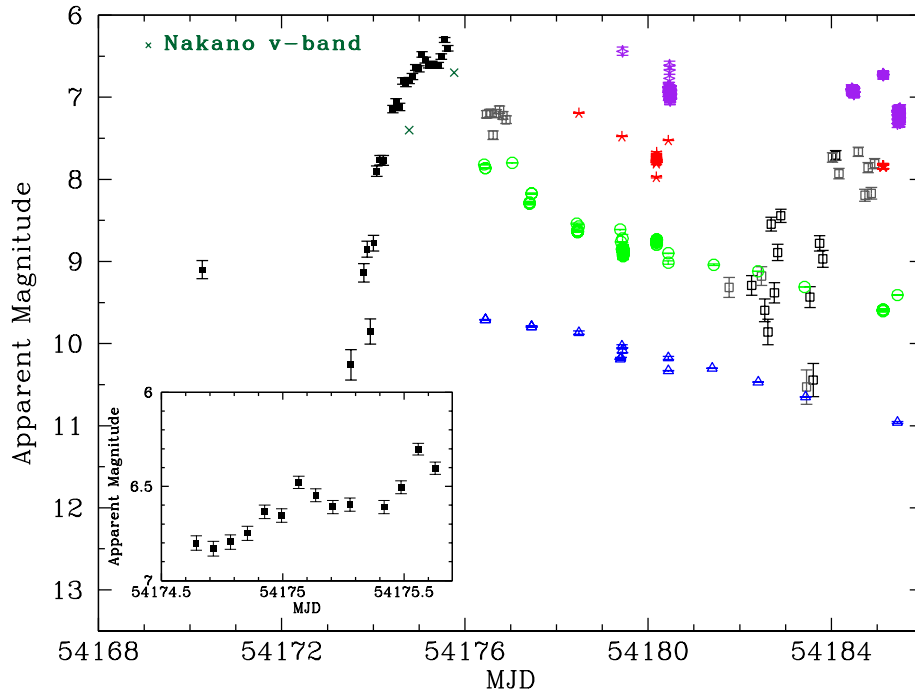


Figure 6. Optical light curves of V2467 Cyg indicating the peak of the nova and its initial decline. SMEI data with a lower r than optimal have been included for completeness. AAVSO data which coincide with the SMEI light curve have been included (see Figure 1 for data legend). The two green crosses represent data from Nakano *et al.* (2007a). The inset shows the final rise, peak, and initial decline of the nova in the SMEI data only.

maximum magnitude of $m_V = 7.42$ on 2004 August 3.58 UT (MJD 53220.58, Yamaoka 2004, this is the peak of the V band AAVSO light curve given in Figure 5). The initial decline gave $t_2 = 8.7$ and $t_3 = 15$ days (Lynch *et al.* 2006), classifying V1187 Sco as a very fast nova. Near-IR spectroscopic observations of the object by Lynch *et al.* (2006) indicated the development of a nova explosion on an O Ne WD, which did not form dust before entering its nebular phase. The emission lines found within the spectra had complex, double-peaked profiles. Using the H I double emission lines the nova ejecta were modeled as ring or partial sphere-like emitting region. An extinction of $A_V = 4.68 \pm 0.24$ was derived also using O I lines in combination with the optical spectra.

The SMEI data give the peak brightness of nova V1187 Sco as $m_{\text{SMEI}} = 6.95 \pm 0.04$ on 2004 August $3.77^{+0.07}_{-0.04}$ UT (MJD 53220.77). This is 0.47 magnitudes brighter and 0.19 days later than the V-band peak given in the lower time resolution results of Yamaoka (2004). Within Figure 5, the SMEI light curve is compared to V-band AAVSO data and I-band data from the Nova Atlas within the same time frame.

A substantial portion of the initial nova rise is missing from the SMEI light curve, however some data before peak are presented. As the nova is of the very fast classification one would expect the rise to maximum to also be fast, however within the SMEI data we are finding the opposite effect. This apparent slow rise is most likely due to contamination of the data from several close bright neighboring stars, despite the conduction of simultaneous fitting and the fitting of additional bright stars in the larger surrounding region. The apparent plateau/dip before the final rise to peak may therefore not be a PMH, instead it is probably residual light from a neighboring star. Data points between July 29th to July 31st (MJD 53215-53217) were removed due to large variations in the RA and dec on fitting, suggesting a fit of residuals rather than the nova. However, the gap seen around the 2nd of August (MJD 53219) is due to a SMEI anomaly during which the instrument was forced to shut down and restart³. The noisiness of the light curve especially during decline is also likely due to contamination from neighboring bright stars. However, there does appear to be some structured oscillation which may be real.

The SMEI data shown in Figure 5 do not cover the magnitude range required for the determination of a t_2 time. However, on application of a linear fit to the initial decline of the nova using all data where r is greater than 0.3 a t_2 of $10.10^{+0.43}_{-0.39}$ days was derived (error quoted is statistical only and obtained using the uncertainties of the fitted gradient and intercept.). This is slightly larger than the result presented in Lynch *et al.* (2006), but agrees (within errors) with the very fast nova classification.

3.4. V2467 Cygni

Nova V2467 Cyg ($\alpha = 20^h 28^m 12^s 47$, $\delta = +41^\circ 48' 36'' 4$; J2000) was discovered by A. Tago at $m_V = 7.4$ (Nakano *et al.* 2007a) on 2007 March 15.79 UT (MJD 54174.79). It then rose to a peak magnitude of 6.7 on 2007 March 16.77 UT (MJD 54175.77) and declined with a $t_2 = 7.3$

(Lynch *et al.* 2009). An early spectrum of the nova obtained on 2007 March 16.8 UT (MJD 54175.8) indicated an expansion velocity of $\sim 1200 \text{ km s}^{-1}$ and an Fe II - type nova classification (Munari *et al.* 2007).

The transition phase of the object was seen to start in April of 2007 after fading approximately 4 magnitudes. Within this phase, six quasi-periodic oscillations were observed with periods from 19 to 25 days and amplitudes of ≈ 0.7 magnitudes. Swierczynski *et al.* (2010) proposed that the period found within the optical light curve, and changes found in the subsequent X-ray detections, could only be explained if the system were an IP.

The SMEI light curve for nova V2467 Cyg can be seen in Figure 6. The data show a gap between the first detectable point and the initial rise of the nova. Examination of data within this period suggests that the SMEI pipeline struggled to find a point source due to a combination of noise from nearby objects and the overall faintness of the nova at this time. The initial point seen in Figure 6 is only just detectable above this background noise. The rise of the nova light curve starts on 2007 March 14.52 UT (MJD 54173.52) and is very steep, rising 2.8 magnitudes in just under 2 days. Within this rise to peak no PMH is found, possibly due to a lack of data around $m_{\text{SMEI}} = 7.5$. The peak magnitude of the nova is given as $m_{\text{SMEI}} = 6.30 \pm 0.03$ on 2007 March 16.56 ± 0.04 UT (MJD 54175.56), this is 0.40 magnitudes brighter and 0.21 days earlier than the V-band peak given in Nakano *et al.* (2007a) and suggests that it was not covered within their data. Once again the large scatter of the SMEI data on decline prevents a direct measurement of t_2 . Assuming that any scatter in the data is due to noise and is not inherent to the intrinsic behavior of the nova a linear fit of the initial decline yields an approximate t_2 time of $5.68^{+0.61}_{-0.53}$ days, classifying the nova as very fast. This is a sharper decline than that observed by Lynch *et al.* (2009). During this decay there are several gaps in the SMEI data. The first takes place during March 16th (MJD 54175) and is due to a masking issue which lasts for less than a day, the second occurs on March 18th (MJD 54177) and is due to many factors including engineering work, pre-annealing calibration, hot annealing, and an instrumental anomaly. This gap lasted for several days.

3.5. V458 Vulpeculae

Nova V458 Vul ($\alpha = 19^h 54^m 24^s 61$, $\delta = +20^\circ 52' 52'' 6$; J2000) was discovered in TN-outburst by Nakano *et al.* (2007b) at an apparent magnitude of 9.5 on 2007 August 8.54 UT (MJD 54320.54), reaching its peak visual magnitude soon after at $m_V = 8.1$. The nova's t_3 time is given as 21 days and it is therefore classified as a fast nova (Wesson *et al.* 2008). The decline of the object was disrupted by two re-brightenings, the first occurring 20 days after maximum. Spectra taken after the eruption revealed the nova to be of the hybrid spectral class (Poggiani 2008), with an early Fe II - type spectra and evolving to He/N. V458 Vul is an interesting nova as it occurred within a planetary nebula and as such light echoes of the burst within the surrounding material are seen (Wesson *et al.* 2008).

The SMEI light curve and corresponding AAVSO data of this nova are displayed in Figure 7. Unfortunately SMEI covers only eight days around the nova peak, as

³ A SMEI anomaly means that satellite underwent an impromptu manipulation causing the system to go offline.

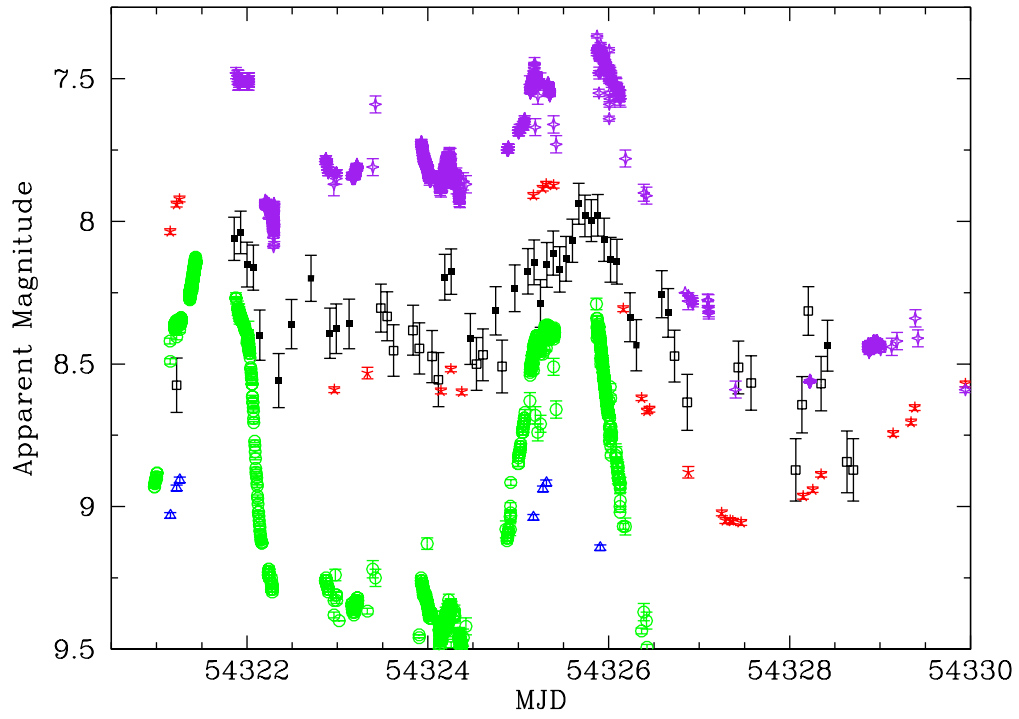


Figure 7. Optical light curves of V458 Vul indicating the multiple peaks of the nova. AAVSO data are displayed for comparison (see Figure 1 for data legend). There is a large color difference between blue and red filters.

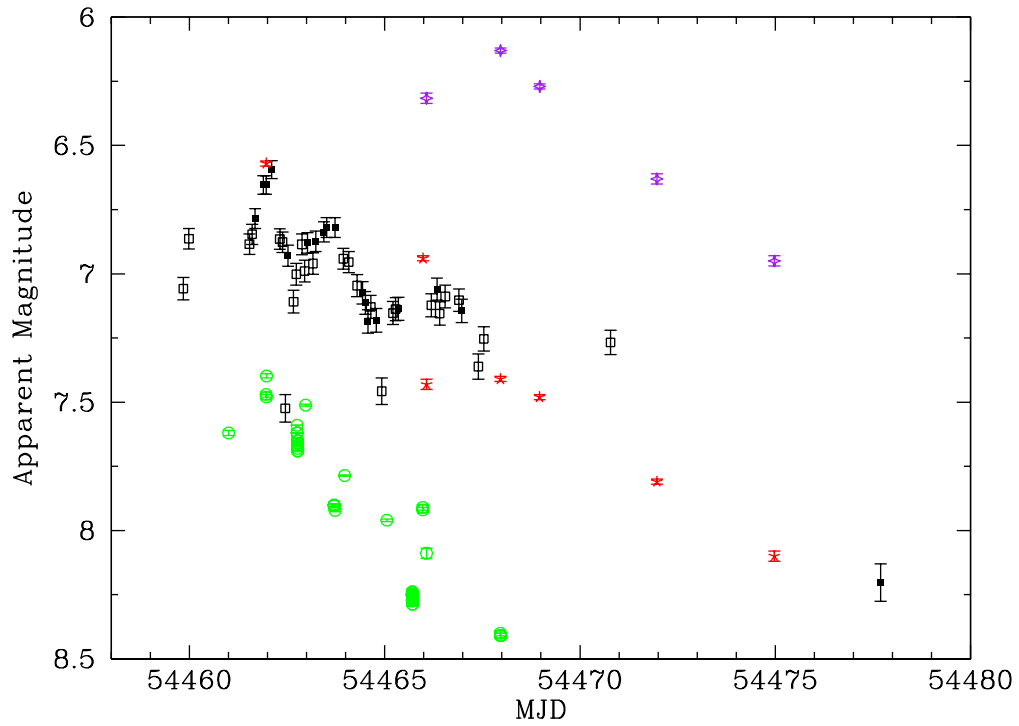


Figure 8. Optical light curves of V459 Vul. The SMEI light curve indicates oscillations during the decline from maximum. Data from the AAVSO are displayed for comparison (see Figure 1 for data legend).

on other dates the nova is too faint for detection. What is most striking about this light curve is that there are multiple flaring events during the initial decline (these may be akin to those seen in U Sco, Schaefer *et al.* 2011). There are two bright peaks separated by a fainter third, the magnitude and times of each peak are given as $m_{\text{SMEI}} = 8.04 \pm 0.07$ on 2007 August 9.93 \pm 0.04 UT (MJD 54321.93), $m_{\text{SMEI}} = 8.30 \pm 0.08$ on 2007 August 11.48 $^{+0.04}_{-0.18}$ UT (MJD 54323.48), and $m_{\text{SMEI}} = 7.94 \pm 0.07$ on 2007 August 13.66 \pm 0.04 UT (MJD 54325.66). On comparison the peak of the *R*-band light curve occurs on 2007 August 13.31 UT (MJD 54325.31) at $m_R = 7.87 \pm 0.01$, with the peak of the *I* on 2007 August 13.87 UT (MJD 54325.87) at $m_I = 7.35 \pm 0.01$.

3.6. V459 Vulpeculae

Nova V459 Vul ($\alpha = 19^h 48^m 08^s 87$, $\delta = +21^\circ 15' 26'' 8$; J2000) was discovered independently by Hiroshi Kaneda and Akihiko Tago (Nakano *et al.* 2007c, 2008b) at an average unfiltered magnitude of 8.7 on 2007 December 25.35 UT (MJD 54459.35) and 2007 December 26.38 UT (MJD 54460.38) respectively. Spectroscopic observation of the object by Yamaoka *et al.* (2007) revealed the presence of several Fe II multiplets making V459 Vul an Fe II - type nova. A candidate progenitor with $m_r \sim 20$ was identified in the red POSS-II plates, but no IR counterpart was found within 2MASS. The progenitor magnitude found suggested a TN-outburst amplitude of ~ 12.5 magnitudes in B (Henden and Munari 2008). The maximum magnitude of V459 Vul was $m_V = 7.58$ on 2007 December 27.25 UT (MJD 54461.25) with t_2 and t_3 times given as 18 ± 2 days and 30 ± 2 days respectively (Poggiani 2010), making this a fast nova. Using photometric data, Poggiani (2010) went on to obtain an extinction of $A_V = 2.75 \pm 0.38$, an absolute magnitude range between -8.7 and -7.7, and a WD mass in the range of 0.9 - 1.1 M_\odot .

The SMEI light curve is displayed in Figure 8 and unfortunately the initial rise of the nova appears not to be caught by the instrument. Several points between December 25.85 UT and 27.54 UT (MJD 54459.85 - 54461.54) have also been omitted due to poor r values and a large scatter in the RA and dec of the object early on, as such any possible PMH has been missed. The peak magnitude of the light curve is found to be $m_{\text{SMEI}} = 6.59 \pm 0.04$ on 2007 December 28.11 $^{+0.11}_{-0.07}$ UT (MJD 54462.11). Based on a linear extrapolation between the peak and last data point of the SMEI light curve the estimated t_2 time is given as ~ 19.4 days. The SMEI peak is 0.99 magnitudes brighter and 0.86 days later than *V*-band measurements given in Poggiani (2010), and the estimated t_2 value is slightly larger, these deviations may be due to the difference in band-pass. The peak AAVSO *V*-band magnitude however, disagrees with that of Poggiani (2010) giving $m_V = 7.39 \pm 0.01$ on 2007 December 27.98 (MJD 54461.98) reducing previous discrepancies. On comparison the peak of the *R*-band AAVSO data is much closer to the SMEI peak as it occurs on 2007 December 27.97 UT (MJD 54461.97) at $m_R = 6.57 \pm 0.01$. The SMEI light curve also indicates that there may be several oscillations in the decline with amplitudes of order of a few tenths of a magnitude. These oscillations are not evident in the AAVSO data and illustrate how high cadence observations can reveal new

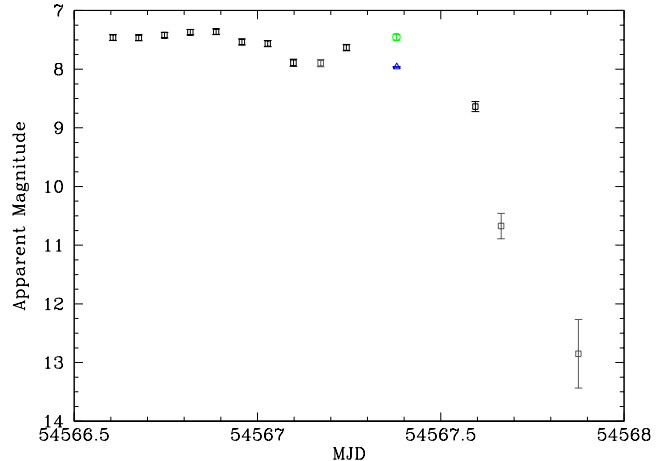


Figure 9. Optical light curves of V2491 Cyg. SMEI data with a lower r than optimal have been included for completeness. Data from the AAVSO have been plotted for comparison (see Figure 1 for data legend).

features.

3.7. V2491 Cygni

The discovery of Nova V2491 Cyg ($\alpha = 19^h 43^m 01^s 96$, $\delta = +32^\circ 19' 13'' 8$; J2000) was presented in Nakano *et al.* (2008a). The nova reached maximum $m_V = 7.45 \pm 0.05$ on 2008 April 11.37 \pm 0.01 UT (MJD 54567.37, this is the peak of the AAVSO *V*-band data in Figure 9, Munari *et al.* 2011). Spectra indicated that it belongs to the He/N class of novae (Helton *et al.* 2008). V2491 Cyg had a rapid optical decline with a $t_2 = 4.8$ days and as such is classified as a very fast nova (Munari *et al.* 2011; Darnley *et al.* 2011). Approximately 15 days after eruption a secondary maximum was observed with $m_V = 9.49 \pm 0.03$. Based on the spectra of the nova many authors (e.g. Tomov *et al.* 2008; Page *et al.* 2010) believe that the object is in fact a RN. Using the interstellar Na I line, a reddening of $E_{B-V} = 0.23 \pm 0.01$ was derived.

Unfortunately SMEI was only able to detect the nova at a few points around the nova peak and its initial decline. These data are presented in Figure 9, in which we have allowed data with $r < 0.4$ for completeness. The maximum magnitude is given as $m_{\text{SMEI}} = 7.36 \pm 0.05$ on 2008 April 10.89 \pm 0.04 UT (MJD 54566.89), slightly earlier and brighter than the *V*-band peak given in Munari *et al.* (2011), but matching quite well the unfiltered magnitude of 7.7 on 2008 April 10.8 UT (MJD 54566.8) presented in Nakano *et al.* (2008a). Due to a lack of data we were unable to determine a t_2 time.

3.8. QY Muscae

QY Mus ($\alpha = 13^h 16^m 36^s 44$, $\delta = -67^\circ 36' 47'' 8$; J2000) was discovered by Liller *et al.* (2008a), at an unfiltered magnitude of 8.6 on 2008 September 28.998 UT (MJD 54737.998). The nova then reached a peak unfiltered magnitude of 8.1 on 2008 September 30.397 UT (MJD 54739.40, green cross within Figure 10). Schwarz *et al.* (2011) give the t_2 time of this object as approximately 60 days, making this a moderately fast nova.

The SMEI light curve (see Figure 10) indicates that the nova reached a peak magnitude of $m_{\text{SMEI}} = 6.93 \pm 0.04$ on

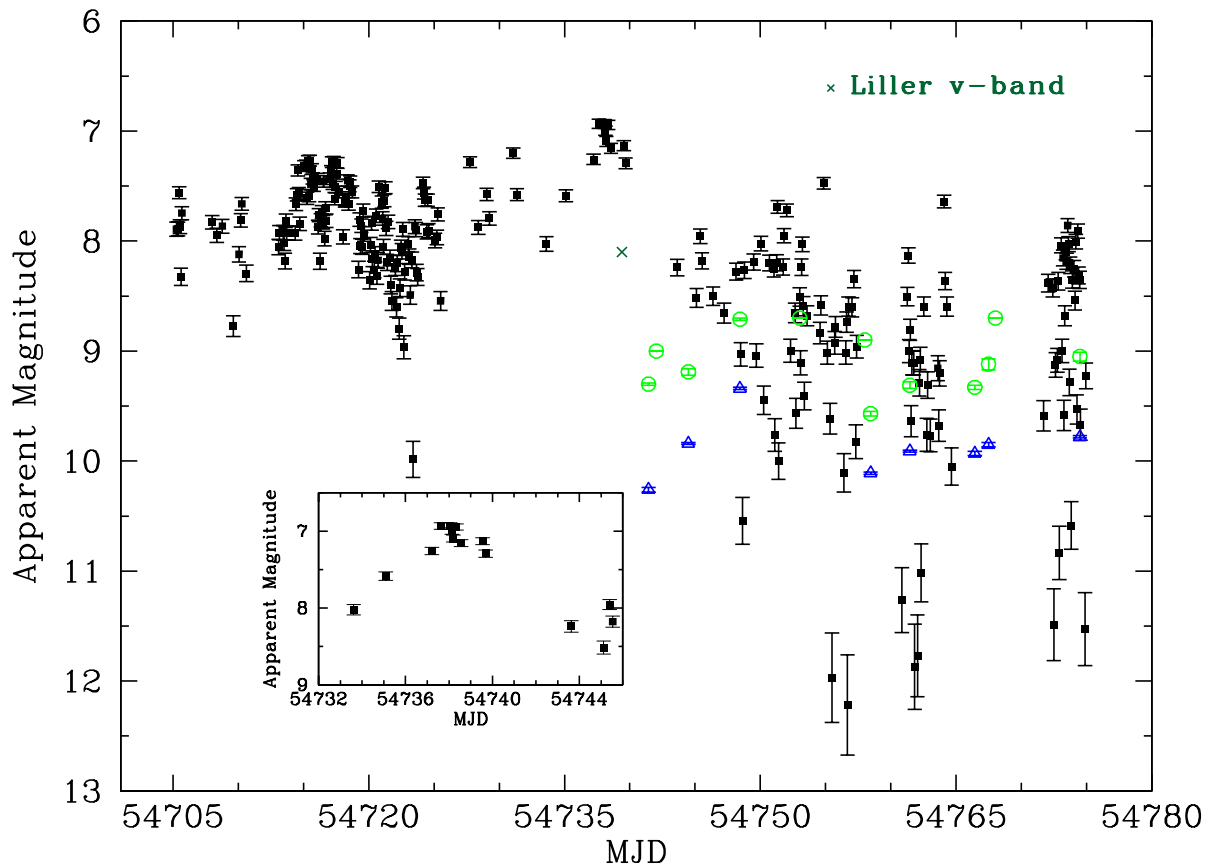


Figure 10. Optical light curves of QY Mus. The SMEI data are very noisy due to contamination from neighboring bright stars. AAVSO data are given for comparison (see Figure 1 for data legend). The green cross represent the peak unfiltered magnitude given by Liller *et al.* (2008a). The inset represents data from around the peak of the SMEI light curve only. **These data at maximum are to be treated with caution as they are contaminated by light from neighboring bright stars.**

2008 September 28.63 ± 0.2 UT (MJD 54737.63). This magnitude is significantly brighter than both the V -band AAVSO peak and unfiltered peak given in Liller *et al.* (2008a). The variance between the peak magnitudes may be due to differences in the band-passes of the instruments. However, upon an examination of the location of the nova within the SMEI sky-maps, the discrepancy is most likely caused by neighboring bright stars (again, simultaneous fitting of these objects was conducted along with the fitting of additional bright stars in the larger surrounding region). The decay of the SMEI light curve is quite consistent with that from AAVSO data. However the scatter in the SMEI light curve is evident and is due to problems in fitting the source as it approaches the limiting SMEI magnitude, and contamination from the surrounding bright stars. We are unable to give an estimate of the t_2 value of the nova due to the large scatter in the light curve at this time.

3.9. V5580 Sagittarii

Nova V5580 Sgr ($\alpha = 18^h 22^m 01^s 39$, $\delta = -28^\circ 02' 39'' 8$; J2000) was discovered by Liller (2008b) at approximately 8th magnitude using an “orange” filter on 2008 November 29.04 UT (MJD 54799.04). The variable was also

present on November 23.037 UT (MJD 54793.037) at a magnitude of approximately 10.3, but was not visible (mag > 11.0) on November 20.035 (MJD 54790.035). The nova rose to peak on 2008 November 29.999 UT (MJD 54799.999) with a magnitude of 7.8 (Liller 2008b).

Although the nova is detected by SMEI, only a few reliable points were obtained due to the passage of Venus and its poor subtraction. For this reason we have decided not to present the light curve. The peak magnitude found for the object is at $m_{\text{SMEI}} = 7.01 \pm 0.04$ on 2008 November 30.85 UT (MJD 54800.85). This is slightly later and brighter than values mentioned within Liller (2008b). Unfortunately no t_2 time can be derived from the SMEI light curve, and one can not be found in the literature.

4. DISCUSSION AND CONCLUSION

We present here SMEI archival data for nine known Galactic novae, V1187 Sco, V2467 Cyg, V458 Vul, V597 Pup, V459 Vul, V2491 Cyg, QY Mus, V5580 Sgr, and V5583 Sgr (which are faint with respect to the novae presented in Paper I: RS Oph, V1280 Sco, V598 Pup, and KT Eri, and comparable to T Pyxidis in Hounsell *et al.* 2012; Surina *et al.* 2014). Light curves for eight of the

eruptions have been displayed, and for all nine we have determined basic observational properties, including the time of peak, maximum magnitude, and where possible the t_2 time (see Table 1). Our work indicates that although these novae possess magnitudes which are at or below the optimal detection limits of SMEI, we are still able to produce light curves which in many cases contain more data at and around the initial rise, peak, and decline than are found within other variable star catalogs such as the AAVSO or the Nova Atlas (the limits here may well be due to sampling and distance).

The majority of novae examined within this paper are of the very fast (5 out of 9) or fast (2 of 9) speed classes rather than the moderately fast, slow, or very slow type. This is not surprising as novae which decline more rapidly are more intrinsically luminous and as such more likely to possess peak magnitudes above the SMEI detection threshold (distance and reddening factors may also play a part here as well). QY Mus, however does belong to the moderately fast speed class, which in turn implies a slow photometric evolution (the slowest nova examined in both this paper and Paper I), and as such has produced one of the noisiest light curves due to the faintness of the event (and star crowding issues).

Whenever possible our SMEI light curves have been compared to multi-filter data from the AAVSO and Nova Atlas. In the majority of cases the SMEI data have been seen to match the R -band (specifically R_{AAVSO}) much better than those of any other filter (unsurprising given that the peak throughput of the instrument is 700nm). However, for V1187 Sco the SMEI magnitude is best matched with the I -band Nova Atlas data. This discrepancy between favored band-passes could be caused by contamination from neighboring stars, as well as different filters being used in both the Nova Atlas and AAVSO catalogs, which come from several different telescopes, and as such vary in peak throughput. It could also be due to the intrinsic spectral energy distribution of the nova, and/or the column of extinction towards the system. An additional point to note is that V1187 Sco is a fast ONe type nova, and so would have had much stronger line emission early on in the eruption relative to slower, more continuum dominated novae. The strong $H\alpha$ emission would effect the R and I filters and may well be a more likely explanation for the difference in which one is favored.

Four of the novae examined (V1187 Sco, V458 Vul, V459 Vul, and V5580 Sgr) possess peak SMEI magnitudes which are brighter than their recorded V -band maxima, and at slightly later times. Again this may simply be due to the different filters being considered here, which is supported by the fact that two of the novae possess peaks which are closer in time and magnitude to the given R -band maxima. On the other hand four novae (QY Mus, V2467 Cyg, V2491 Cyg, V5583 Sgr) have peak SMEI magnitudes which are earlier and brighter than the values recorded in the literature. For QY Mus we believe that the value of the SMEI maximum is inaccurate due to severe contamination from neighboring sources. However, for V2467 Cyg, V2491 Cyg, and V5583 Sgr, although the difference in magnitude may be due to the difference in band-pass, the earlier occurrence could suggest that we obtained a more precise time of peak due to better sampled light curves.

Looking at specific features within the SMEI nova light curves, five of the objects examined possess final rise data (V1187 Sco, V2467 Cyg, V597 Pup, V459 Vul, V5583 Sgr), which for the majority of cases (V5583 Sgr excluded) were not previously observed. Within the final rise of both V597 Pup and V5583 Sgr the presence of a PMH is suggested. Unfortunately the correlation coefficient (r) of the data for the PMHs is in both cases less than optimal (the first two points of the V597 Pup halt have an r value of 0.39 and 0.35; the V5583 Sgr halt has r values of 0.23, 0.26, and 0.26 respectively) and so their reality is questionable. However, in the case of V5583 Sgr work by Holdsworth *et al.* (2014) would suggest that the SMEI PMH is real as they too find this halt using STEREO data. It should also be noted that the duration of each halt observed is consistent with the speed class of the nova, and occurs within the Δm_{SMEI} (0.63-1.74 magnitudes) and Δt (0.49 - 2.19 days) ranges found in Paper I.

Throughout this work and Paper I, we have used the traditional definition of a PMH which occurs 1-2 mags below peak (see e.g. McLaughlin). However, we should note that until there is a strong physical basis for the PMH any such definition is relatively arbitrary, and, for example, maybe depend on parameters such as the WD mass or accretion rate.

With this in mind we must re-evaluate both nova V2467 Cyg and V5583 Sgr. Examining the rise of nova V2467 Cyg there may be evidence for a PMH on 2007 March 16.07 UT (MJD 54175.07) at an average $m_{\text{SMEI}} = 6.56 \pm 0.05$ which lasts ~ 0.14 days (see inset of Figure 6). This PMH has a Δm_{SMEI} of 0.26 magnitudes, much smaller than that previously observed, and a Δt of 0.49 days. The r values associated with this PMH data are also all above 0.6 making it a very real feature of the light-curve. In Section 3.2 nova V5583 Sgr was found to have several PMH like features, and although one seemed to fit our ‘standard’ definition of a PMH it consisted of data with lower r values than optimal. The third feature seen however, has data with $r > 0.35$ (again less than optimal, but better than the earlier features) and occurs on 2009 August 6.75 UT (MJD 55049.75) at $m_{\text{SMEI}} = 7.18 \pm 0.01$ and lasts for 0.21 days. The PMH has an Δm_{SMEI} of 0.25 magnitudes and a Δt of 0.33 days, both of which are much smaller than that previously observed.

During the initial decline from maximum both V1187 Sco and V459 Vul seem to display oscillations within their light curves. This rapid observed variability can only be appreciated and realized with a high-cadence instrument such as SMEI. Moreover, the unusual nova V458 Vul has several multi-flaring events shortly after eruption for which SMEI has again provided a highly detailed light curve. This light curve closely matches that observed in the AAVSO R -band.

With its closure in September 2011 the SMEI archive contains 8.5 years of all-sky high cadence (102 minutes) data which is now in a static state. Both Paper I and this present work clearly indicate how important it is to examine the data of all-sky facilities such as SMEI with regards to transient events. As such we will continue to investigate this archive for other transient and variable stars, as well as for additional novae which may have been missed during their eruptions.

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Table 2
SMEI light curve data for Nova V1187 Sco

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
53215.68	7.47	0.05	0.73	53222.95	7.52	0.05	0.49
53217.52	7.49	0.05	0.72	53223.02	7.49	0.05	0.49
53217.66	7.62	0.05	0.70	53223.09	7.53	0.05	0.49
53217.80	7.59	0.05	0.71	53223.23	7.49	0.05	0.47
53218.01	7.67	0.05	0.71	53223.80	7.70	0.06	0.46
53218.08	7.73	0.06	0.69	53223.87	7.57	0.05	0.45
53218.30	7.66	0.05	0.70	53223.94	7.81	0.06	0.43
53218.37	7.78	0.06	0.76	53224.01	7.60	0.05	0.44
53218.86	7.87	0.06	0.74	53224.29	7.94	0.06	0.40
53219.92	7.37	0.05	0.63	53224.36	7.70	0.05	0.44
53219.99	7.17	0.04	0.64	53224.43	7.52	0.05	0.44
53220.06	7.29	0.05	0.64	53224.50	7.91	0.06	0.41
53220.13	7.26	0.05	0.63	53224.57	7.84	0.06	0.43
53220.20	7.07	0.04	0.66	53224.64	7.74	0.06	0.42
53220.27	7.20	0.04	0.61	53224.71	7.81	0.06	0.41
53220.34	7.02	0.04	0.65	53224.79	7.85	0.06	0.40
53220.41	7.03	0.04	0.63	53224.86	7.77	0.06	0.42
53220.48	7.03	0.04	0.64	53224.93	7.79	0.06	0.41
53220.55	7.01	0.04	0.64	53225.00	7.81	0.06	0.42
53220.62	7.12	0.04	0.64	53225.21	7.91	0.06	0.42
53220.70	7.04	0.04	0.62	53225.28	7.56	0.05	0.48
53220.77	6.95	0.04	0.63	53225.35	7.83	0.06	0.44
53220.91	7.09	0.04	0.57	53225.42	7.91	0.06	0.42
53220.98	7.06	0.04	0.60	53225.49	7.94	0.06	0.42
53221.26	6.97	0.04	0.61	53226.20	7.84	0.06	0.44
53221.33	7.11	0.04	0.58	53226.27	7.95	0.06	0.43
53221.40	7.15	0.04	0.58	53226.34	8.05	0.06	0.42
53221.47	7.20	0.04	0.54	53226.48	8.30	0.07	0.39
53221.54	7.29	0.05	0.57	53226.55	8.48	0.08	0.38
53221.61	7.32	0.05	0.57	53226.62	8.08	0.07	0.38
53221.68	7.33	0.05	0.57	53226.83	8.42	0.08	0.35
53221.75	7.43	0.05	0.55	53226.90	8.46	0.08	0.35
53221.82	7.29	0.05	0.55	53226.97	8.38	0.07	0.33
53221.89	7.25	0.04	0.56	53227.04	8.08	0.07	0.35
53221.96	7.52	0.05	0.53	53227.26	8.77	0.09	0.31
53222.04	7.54	0.05	0.52	53227.33	8.42	0.08	0.36
53222.18	7.50	0.05	0.51	53227.40	8.31	0.07	0.34
53222.25	7.46	0.05	0.52	53227.54	8.37	0.07	0.33
53222.32	7.53	0.05	0.50	53229.45	8.42	0.08	0.33
53222.39	7.63	0.05	0.50	53229.94	8.38	0.07	0.36
53222.53	7.41	0.05	0.51	53230.01	8.47	0.08	0.31
53222.60	7.54	0.05	0.49	53230.79	8.69	0.09	0.37
53222.67	7.63	0.05	0.47	53231.21	9.49	0.12	0.35
53222.81	7.53	0.05	0.50	53231.28	9.37	0.12	0.34
53222.88	7.60	0.05	0.48	53231.91	9.08	0.10	0.31

APPENDIX

This appendix contains the MJD, SMEI Mag, and SMEI Error for each nova examined within this paper and Paper I. In addition r is given for novae presented within this paper only.

Table 3
SMEI light curve data for Nova V2467 Cyg

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54160.88	13.07	0.67	0.31	54176.48	7.21	0.05	0.35
54161.38	10.30	0.19	0.30	54176.55	7.20	0.05	0.39
54167.16	10.63	0.22	0.42	54176.62	7.46	0.05	0.32
54170.27	9.10	0.11	0.54	54176.69	7.20	0.05	0.37
54173.52	10.26	0.19	0.55	54176.76	7.15	0.05	0.37
54173.80	9.14	0.11	0.57	54176.83	7.22	0.05	0.35
54173.87	8.85	0.10	0.56	54176.90	7.27	0.05	0.35
54173.94	9.85	0.15	0.58	54181.77	9.32	0.12	0.38
54174.01	8.78	0.09	0.55	54182.26	9.29	0.12	0.43
54174.08	7.90	0.06	0.53	54182.48	9.18	0.11	0.37
54174.15	7.77	0.06	0.52	54182.55	9.60	0.14	0.42
54174.22	7.77	0.06	0.58	54182.62	9.86	0.15	0.44
54174.43	7.14	0.04	0.58	54182.69	8.55	0.08	0.43
54174.50	7.06	0.04	0.57	54182.76	9.38	0.12	0.45
54174.57	7.12	0.04	0.63	54182.83	8.89	0.10	0.46
54174.64	6.80	0.04	0.59	54182.90	8.44	0.08	0.43
54174.71	6.83	0.04	0.60	54183.46	10.53	0.21	0.38
54174.79	6.80	0.04	0.62	54183.54	9.43	0.13	0.46
54174.86	6.75	0.04	0.61	54183.61	10.44	0.20	0.40
54174.93	6.64	0.04	0.68	54183.75	8.78	0.09	0.50
54175.00	6.65	0.04	0.65	54183.82	8.97	0.10	0.48
54175.07	6.48	0.03	0.67	54184.03	7.73	0.06	0.33
54175.14	6.55	0.03	0.62	54184.10	7.71	0.06	0.43
54175.21	6.61	0.04	0.63	54184.17	7.93	0.06	0.38
54175.28	6.60	0.03	0.55	54184.59	7.66	0.06	0.31
54175.42	6.61	0.04	0.56	54184.73	8.19	0.07	0.38
54175.49	6.50	0.03	0.67	54184.80	7.86	0.06	0.33
54175.56	6.30	0.03	0.70	54184.88	8.17	0.07	0.37
54175.63	6.40	0.03	0.67	54184.95	7.81	0.06	0.33

Table 4
SMEI light curve data for Nova V458 Vul

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54321.22	8.57	0.10	0.40	54325.24	8.29	0.08	0.54
54321.86	8.06	0.08	0.62	54325.31	8.15	0.08	0.58
54321.93	8.04	0.07	0.66	54325.38	8.11	0.08	0.56
54322.00	8.15	0.08	0.65	54325.45	8.17	0.08	0.58
54322.07	8.16	0.08	0.65	54325.52	8.13	0.08	0.64
54322.14	8.40	0.09	0.60	54325.59	8.07	0.08	0.64
54322.35	8.56	0.09	0.55	54325.66	7.94	0.07	0.68
54322.49	8.36	0.09	0.53	54325.73	7.98	0.07	0.70
54322.70	8.20	0.08	0.58	54325.80	8.00	0.07	0.67
54322.91	8.39	0.09	0.52	54325.88	7.98	0.07	0.71
54322.98	8.38	0.09	0.53	54325.95	8.07	0.08	0.69
54323.12	8.36	0.09	0.51	54326.02	8.13	0.08	0.67
54323.48	8.30	0.08	0.49	54326.09	8.14	0.08	0.67
54323.55	8.33	0.09	0.49	54326.23	8.34	0.09	0.61
54323.62	8.45	0.09	0.44	54326.30	8.43	0.09	0.55
54323.83	8.38	0.09	0.49	54326.58	8.26	0.08	0.54
54323.90	8.45	0.09	0.47	54326.65	8.32	0.09	0.52
54324.04	8.47	0.09	0.46	54326.72	8.47	0.09	0.48
54324.11	8.56	0.09	0.49	54326.86	8.63	0.10	0.48
54324.18	8.20	0.08	0.56	54327.43	8.51	0.09	0.43
54324.25	8.18	0.08	0.54	54327.57	8.57	0.10	0.48
54324.46	8.41	0.09	0.50	54328.06	8.87	0.11	0.42
54324.54	8.50	0.09	0.47	54328.13	8.64	0.10	0.44
54324.61	8.47	0.09	0.46	54328.20	8.31	0.08	0.47
54324.75	8.31	0.08	0.51	54328.34	8.57	0.10	0.47
54324.82	8.51	0.09	0.47	54328.41	8.44	0.09	0.52
54324.96	8.23	0.08	0.53	54328.63	8.84	0.11	0.48
54325.10	8.17	0.08	0.57	54328.70	8.87	0.11	0.43
54325.17	8.14	0.08	0.58				

Table 5
SMEI light curve data for Nova V597 Pup

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54407.04	9.57	0.13	0.34	54427.36	9.43	0.12	0.52
54416.43	10.48	0.20	0.43	54427.43	10.06	0.16	0.48
54416.50	10.30	0.18	0.31	54427.64	10.35	0.19	0.47
54417.34	9.56	0.13	0.40	54427.71	10.20	0.17	0.45
54417.48	8.79	0.09	0.37	54427.86	10.73	0.22	0.44
54417.62	8.34	0.07	0.39	54428.07	11.35	0.29	0.30
54417.70	7.97	0.06	0.35	54428.14	9.49	0.13	0.40
54417.84	7.89	0.06	0.40	54428.35	9.15	0.11	0.46
54417.91	7.76	0.06	0.41	54428.42	9.54	0.13	0.47
54417.98	7.69	0.06	0.41	54428.70	9.43	0.12	0.46
54418.54	7.02	0.04	0.61	54428.77	9.32	0.12	0.46
54418.61	6.96	0.04	0.64	54428.84	9.00	0.10	0.46
54418.68	6.91	0.04	0.66	54428.91	10.19	0.17	0.49
54418.75	7.03	0.04	0.63	54429.41	12.00	0.40	0.48
54418.82	7.17	0.04	0.55	54429.62	11.19	0.27	0.44
54418.89	7.23	0.05	0.55	54429.97	10.49	0.20	0.48
54418.96	7.24	0.05	0.58	54430.25	11.65	0.34	0.44
54419.04	7.17	0.04	0.59	54430.61	11.13	0.27	0.48
54419.11	7.22	0.04	0.56	54430.82	10.74	0.22	0.50
54419.18	7.33	0.05	0.58	54430.89	11.66	0.34	0.52
54419.25	7.33	0.05	0.55	54431.03	11.25	0.28	0.47
54419.32	7.42	0.05	0.52	54433.00	10.73	0.22	0.45
54419.39	7.51	0.05	0.52	54433.22	9.78	0.14	0.52
54419.53	7.73	0.06	0.49	54434.91	12.96	0.61	0.52
54419.60	7.76	0.06	0.45	54435.12	9.82	0.15	0.47
54419.67	8.05	0.07	0.44	54435.19	11.63	0.33	0.50
54419.74	7.87	0.06	0.47	54435.41	11.07	0.26	0.50
54419.81	7.93	0.06	0.45	54436.11	11.71	0.35	0.50
54419.88	7.75	0.06	0.44	54436.89	11.87	0.37	0.44
54419.95	7.80	0.06	0.44	54437.24	11.02	0.25	0.44
54420.23	8.28	0.07	0.47	54437.80	11.36	0.30	0.50
54420.30	8.70	0.09	0.47	54438.58	10.46	0.20	0.47
54420.45	8.45	0.08	0.44	54438.65	10.05	0.16	0.42
54420.52	8.59	0.08	0.46	54439.85	11.55	0.32	0.49
54420.66	8.30	0.07	0.49	54439.92	12.96	0.61	0.49
54420.94	8.50	0.08	0.46	54441.12	10.28	0.18	0.40
54421.01	8.95	0.10	0.42	54441.54	11.81	0.36	0.45
54421.22	8.96	0.10	0.47	54441.61	10.86	0.24	0.46
54421.29	8.78	0.09	0.45	54441.82	9.37	0.12	0.46
54421.36	8.72	0.09	0.46	54442.04	10.84	0.23	0.38
54421.65	8.69	0.09	0.50	54442.18	10.28	0.18	0.38
54421.72	8.75	0.09	0.48	54442.67	11.42	0.30	0.48
54421.79	8.72	0.09	0.49	54442.74	9.50	0.13	0.44
54422.00	9.10	0.11	0.43	54442.88	12.91	0.60	0.33
54422.07	8.87	0.10	0.55	54443.09	10.21	0.18	0.37
54422.28	9.38	0.12	0.44	54443.66	10.35	0.19	0.48
54422.42	9.22	0.11	0.48	54443.87	9.69	0.14	0.37
54422.56	8.99	0.10	0.50	54444.08	9.98	0.16	0.35
54422.63	8.86	0.09	0.50	54444.36	10.13	0.17	0.43
54422.78	9.07	0.10	0.51	54444.58	10.44	0.19	0.34
54422.85	9.31	0.12	0.50	54444.72	9.67	0.14	0.35
54422.92	8.97	0.10	0.51	54444.86	10.52	0.20	0.45
54422.99	9.12	0.11	0.45	54445.07	11.79	0.36	0.44
54423.06	8.98	0.10	0.46	54445.14	10.24	0.18	0.41
54423.20	8.70	0.09	0.45	54445.21	10.78	0.23	0.35
54423.34	9.61	0.13	0.55	54445.92	9.39	0.12	0.34
54423.48	10.89	0.24	0.54	54446.41	10.21	0.18	0.42
54423.76	9.82	0.15	0.50	54446.62	9.49	0.13	0.42
54424.12	10.29	0.18	0.48	54446.98	10.21	0.18	0.47
54424.19	9.32	0.12	0.43	54447.05	10.10	0.17	0.39
54424.33	9.54	0.13	0.52	54447.19	9.53	0.13	0.45
54424.96	8.81	0.09	0.48	54447.26	9.74	0.14	0.45
54426.73	10.38	0.19	0.49	54447.33	9.31	0.12	0.41
54426.80	9.00	0.10	0.51	54447.54	9.01	0.10	0.40
54426.87	8.98	0.10	0.45	54447.68	9.13	0.11	0.40

Table 6
SMEI light curve data for Nova V597 Pup Continued

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54447.75	9.06	0.10	0.40	54449.66	9.45	0.12	0.40
54447.82	9.72	0.14	0.39	54449.87	9.38	0.12	0.40
54448.04	9.43	0.12	0.35	54450.01	9.88	0.15	0.39
54448.11	9.71	0.14	0.42	54450.15	9.73	0.14	0.49
54448.25	8.95	0.10	0.49	54450.36	9.48	0.13	0.42
54448.46	9.43	0.12	0.39	54450.50	10.29	0.18	0.45
54449.02	9.21	0.11	0.39	54450.57	10.01	0.16	0.44
54449.52	9.44	0.12	0.37	54450.64	11.04	0.26	0.42
54449.59	9.79	0.14	0.41	54450.86	10.09	0.17	0.54

Table 7
SMEI light curve data for Nova V459 Vul

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54431.27	9.79	0.15	0.45	54463.73	6.82	0.04	0.57
54431.91	9.02	0.11	0.41	54463.94	6.94	0.04	0.50
54449.05	8.18	0.07	0.41	54464.08	6.95	0.04	0.50
54459.85	7.06	0.04	0.49	54464.29	7.05	0.04	0.50
54459.99	6.86	0.04	0.48	54464.43	7.07	0.04	0.54
54461.54	6.88	0.04	0.47	54464.50	7.11	0.04	0.52
54461.61	6.85	0.04	0.47	54464.57	7.19	0.05	0.51
54461.68	6.79	0.04	0.52	54464.64	7.13	0.04	0.49
54461.89	6.65	0.04	0.56	54464.79	7.18	0.05	0.51
54461.96	6.65	0.04	0.56	54464.93	7.46	0.05	0.47
54462.11	6.59	0.04	0.58	54465.21	7.15	0.05	0.45
54462.32	6.86	0.04	0.49	54465.28	7.14	0.04	0.47
54462.39	6.88	0.04	0.49	54465.35	7.14	0.04	0.50
54462.46	7.52	0.05	0.44	54466.20	7.12	0.04	0.47
54462.53	6.93	0.04	0.53	54466.34	7.06	0.04	0.52
54462.67	7.11	0.04	0.43	54466.41	7.15	0.05	0.48
54462.74	7.00	0.04	0.43	54466.55	7.09	0.04	0.44
54462.88	6.89	0.04	0.48	54466.90	7.10	0.04	0.49
54462.95	6.99	0.04	0.46	54466.97	7.14	0.05	0.54
54463.02	6.88	0.04	0.53	54467.40	7.36	0.05	0.46
54463.16	6.96	0.04	0.48	54467.54	7.25	0.05	0.50
54463.23	6.87	0.04	0.52	54470.79	7.27	0.05	0.48
54463.45	6.84	0.04	0.50	54477.70	8.20	0.07	0.52
54463.52	6.82	0.04	0.51				

Table 8
SMEI light curve data for Nova V2491 Cyg

Date-Obs MJD	SMEI Mag	SMEI Error	r
54566.61	7.46	0.05	0.43
54566.68	7.46	0.05	0.45
54566.75	7.42	0.05	0.45
54566.82	7.37	0.05	0.44
54566.89	7.36	0.05	0.41
54566.96	7.54	0.05	0.46
54567.03	7.56	0.05	0.45
54567.10	7.89	0.06	0.42
54567.17	7.90	0.06	0.40
54567.24	7.63	0.05	0.49
54567.59	8.64	0.09	0.44
54567.66	10.67	0.22	0.31
54567.88	12.85	0.58	0.40

Table 9
SMEI light curve data for Nova QYMus

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54705.26	7.89	0.06	0.97	54719.36	8.05	0.07	0.97
54705.40	7.89	0.06	0.97	54719.43	7.86	0.06	0.97
54705.47	7.56	0.05	0.97	54719.50	8.05	0.07	0.97
54705.54	7.87	0.06	0.97	54719.58	7.72	0.06	0.98
54705.61	8.33	0.08	0.97	54719.65	7.94	0.06	0.97
54705.68	7.75	0.06	0.97	54720.07	8.36	0.08	0.97
54708.01	7.83	0.06	0.96	54720.14	8.04	0.07	0.97
54708.36	7.95	0.07	0.97	54720.21	7.84	0.06	0.97
54708.79	7.86	0.06	0.94	54720.28	8.16	0.07	0.97
54709.63	8.77	0.09	0.96	54720.42	8.26	0.08	0.97
54710.05	8.12	0.07	0.97	54720.49	8.12	0.07	0.97
54710.20	7.81	0.06	0.97	54720.56	7.77	0.06	0.97
54710.27	7.66	0.06	0.97	54720.63	8.32	0.08	0.97
54710.62	8.29	0.08	0.97	54720.70	8.17	0.07	0.97
54713.09	8.05	0.07	0.97	54720.78	7.51	0.05	0.95
54713.16	7.92	0.06	0.97	54720.99	7.65	0.06	0.96
54713.44	7.92	0.06	0.97	54721.06	7.80	0.06	0.97
54713.51	8.02	0.07	0.97	54721.13	8.05	0.07	0.97
54713.58	8.18	0.07	0.97	54721.20	7.63	0.06	0.97
54713.65	7.82	0.06	0.97	54721.27	7.51	0.05	0.97
54713.72	7.93	0.06	0.97	54721.34	7.89	0.06	0.97
54714.36	7.93	0.06	0.98	54721.41	8.20	0.07	0.97
54714.43	7.67	0.06	0.97	54721.48	7.83	0.06	0.97
54714.50	7.58	0.06	0.97	54721.62	8.15	0.07	0.97
54714.57	7.36	0.05	0.97	54721.69	8.40	0.08	0.97
54714.64	7.57	0.05	0.97	54721.76	8.54	0.09	0.95
54714.71	7.84	0.06	0.97	54722.05	8.24	0.07	0.97
54715.06	7.32	0.05	0.97	54722.12	8.60	0.09	0.97
54715.20	7.32	0.05	0.97	54722.19	8.20	0.07	0.97
54715.27	7.61	0.06	0.97	54722.33	8.80	0.10	0.97
54715.34	7.27	0.05	0.97	54722.40	8.43	0.08	0.97
54715.41	7.59	0.06	0.97	54722.47	8.06	0.07	0.97
54715.48	7.27	0.05	0.97	54722.54	8.09	0.07	0.97
54715.55	7.48	0.05	0.97	54722.61	7.89	0.06	0.97
54715.62	7.35	0.05	0.97	54722.68	8.97	0.10	0.97
54715.70	7.43	0.05	0.97	54722.75	8.28	0.08	0.97
54715.77	7.50	0.05	0.96	54723.03	8.03	0.07	0.97
54716.05	7.43	0.05	0.97	54723.10	8.14	0.07	0.97
54716.12	7.87	0.06	0.97	54723.18	8.49	0.08	0.97
54716.19	7.77	0.06	0.97	54723.32	8.17	0.07	0.97
54716.26	8.18	0.07	0.97	54723.39	9.98	0.16	0.97
54716.33	7.81	0.06	0.97	54723.53	7.87	0.06	0.97
54716.40	7.74	0.06	0.97	54723.60	7.90	0.06	0.97
54716.47	7.83	0.06	0.97	54723.67	8.29	0.08	0.97
54716.54	7.46	0.05	0.97	54723.74	8.33	0.08	0.96
54716.61	7.98	0.07	0.97	54724.16	7.47	0.05	0.97
54716.68	7.70	0.06	0.97	54724.23	7.56	0.05	0.97
54716.75	7.81	0.06	0.97	54724.30	7.63	0.06	0.97
54717.04	7.43	0.05	0.97	54724.45	7.92	0.06	0.97
54717.11	7.37	0.05	0.97	54724.52	7.63	0.06	0.97
54717.18	7.28	0.05	0.97	54724.59	7.90	0.06	0.97
54717.25	7.48	0.05	0.97	54725.08	7.99	0.07	0.97
54717.32	7.28	0.05	0.97	54725.22	7.97	0.07	0.97
54717.39	7.61	0.06	0.98	54725.29	7.76	0.06	0.97
54717.46	7.51	0.05	0.97	54725.50	8.54	0.09	0.97
54717.53	7.39	0.05	0.97	54727.76	7.28	0.05	0.97
54717.60	7.29	0.05	0.97	54728.39	7.88	0.06	0.97
54717.74	7.55	0.05	0.96	54729.03	7.58	0.06	0.97
54718.02	7.96	0.07	0.97	54729.24	7.79	0.06	0.97
54718.16	7.63	0.06	0.97	54731.07	7.20	0.05	0.97
54718.23	7.62	0.06	0.97	54731.36	7.58	0.06	0.97
54718.38	7.45	0.05	0.97	54733.61	8.03	0.07	0.97
54718.45	7.66	0.06	0.97	54735.09	7.59	0.06	0.97
54718.52	7.50	0.05	0.97	54737.21	7.26	0.05	0.97
54718.59	7.46	0.05	0.97	54737.63	6.93	0.04	0.97
54718.73	7.55	0.05	0.97	54738.06	6.94	0.04	0.97
54719.22	8.26	0.08	0.97	54738.13	7.00	0.04	0.97
54719.29	7.81	0.06	0.97	54738.20	7.09	0.04	0.97

Table 10
SMEI light curve data for Nova QYMus continued

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
54738.34	6.95	0.04	0.97	54761.27	8.50	0.08	0.97
54738.55	7.16	0.05	0.97	54761.34	8.13	0.07	0.97
54739.54	7.13	0.04	0.97	54761.41	9.00	0.11	0.97
54739.68	7.29	0.05	0.97	54761.48	8.81	0.10	0.97
54743.63	8.24	0.07	0.97	54761.55	9.64	0.14	0.97
54745.11	8.52	0.08	0.97	54761.62	9.11	0.11	0.97
54745.39	7.96	0.07	0.95	54761.76	9.11	0.11	0.97
54745.54	8.18	0.07	0.97	54761.83	11.87	0.39	0.96
54746.38	8.50	0.08	0.97	54762.04	11.77	0.37	0.97
54747.23	8.65	0.09	0.97	54762.18	9.29	0.12	0.97
54748.14	8.28	0.08	0.97	54762.25	9.08	0.11	0.97
54748.50	9.03	0.11	0.97	54762.32	11.02	0.26	0.97
54748.64	10.54	0.21	0.97	54762.54	8.60	0.09	0.97
54748.78	8.27	0.08	0.97	54762.75	9.76	0.15	0.96
54749.48	8.19	0.07	0.97	54762.82	9.31	0.12	0.97
54749.70	9.04	0.11	0.96	54763.03	9.77	0.15	0.97
54750.05	8.02	0.07	0.97	54763.59	9.16	0.11	0.97
54750.26	9.45	0.13	0.97	54763.66	9.68	0.14	0.97
54750.68	8.20	0.07	0.96	54763.73	9.20	0.12	0.97
54751.04	8.25	0.07	0.97	54764.09	7.64	0.06	0.97
54751.11	9.76	0.15	0.97	54764.16	8.36	0.08	0.97
54751.25	8.20	0.07	0.97	54764.30	8.60	0.09	0.97
54751.32	7.69	0.06	0.97	54764.65	10.05	0.17	0.97
54751.39	10.00	0.17	0.97	54771.70	9.59	0.14	0.96
54751.74	8.24	0.07	0.97	54772.06	8.38	0.08	0.96
54751.81	7.95	0.07	0.96	54772.41	8.43	0.08	0.97
54752.02	7.72	0.06	0.97	54772.48	11.49	0.33	0.97
54752.30	9.00	0.11	0.97	54772.62	9.13	0.11	0.97
54752.66	8.65	0.09	0.96	54772.76	9.08	0.11	0.96
54752.73	9.57	0.14	0.97	54772.83	8.36	0.08	0.96
54753.01	8.51	0.08	0.97	54772.90	10.83	0.24	0.94
54753.08	9.11	0.11	0.97	54773.05	8.04	0.07	0.96
54753.15	8.24	0.07	0.97	54773.12	9.00	0.11	0.96
54753.22	8.03	0.07	0.97	54773.19	8.15	0.07	0.97
54753.29	8.59	0.09	0.97	54773.26	9.58	0.14	0.97
54753.36	9.41	0.13	0.97	54773.33	8.68	0.09	0.96
54753.58	8.68	0.09	0.97	54773.40	8.10	0.07	0.96
54754.56	8.84	0.10	0.97	54773.47	8.18	0.07	0.96
54754.63	8.59	0.09	0.97	54773.54	7.86	0.06	0.96
54754.85	7.48	0.05	0.92	54773.61	8.03	0.07	0.96
54755.13	9.01	0.11	0.97	54773.68	9.28	0.12	0.96
54755.34	9.61	0.14	0.97	54773.75	8.22	0.07	0.96
54755.48	11.97	0.41	0.97	54773.82	10.59	0.22	0.96
54755.69	8.93	0.10	0.96	54773.89	8.35	0.08	0.92
54755.76	8.78	0.10	0.96	54774.03	8.25	0.07	0.96
54756.40	10.11	0.17	0.96	54774.10	8.54	0.09	0.96
54756.54	9.01	0.11	0.96	54774.18	8.00	0.07	0.96
54756.61	8.74	0.09	0.96	54774.25	9.53	0.13	0.96
54756.68	12.22	0.46	0.96	54774.32	7.91	0.06	0.96
54756.75	8.60	0.09	0.97	54774.39	8.31	0.08	0.96
54757.03	8.60	0.09	0.97	54774.46	8.35	0.08	0.97
54757.17	8.35	0.08	0.97	54774.53	9.67	0.14	0.97
54757.32	9.82	0.15	0.96	54774.88	11.53	0.33	0.95
54757.39	8.96	0.10	0.96	54774.95	9.23	0.12	0.92
54760.84	11.27	0.30	0.95				

Table 11
SMEI light curve data for Nova V5583 Sgr

Date-Obs MJD	SMEI Mag	SMEI Error	r	Date-Obs MJD	SMEI Mag	SMEI Error	r
55044.16	8.60	0.10	0.23	55051.71	7.61	0.06	0.26
55044.23	8.29	0.08	0.19	55051.78	7.53	0.06	0.24
55044.37	8.21	0.08	0.21	55051.85	7.58	0.06	0.23
55044.44	8.65	0.10	0.23	55051.92	7.63	0.06	0.25
55044.58	9.88	0.17	0.20	55051.99	7.55	0.06	0.25
55048.67	8.01	0.07	0.24	55052.06	7.56	0.06	0.24
55048.74	7.83	0.07	0.24	55052.13	7.62	0.06	0.24
55048.81	7.77	0.07	0.21	55052.20	7.62	0.06	0.23
55048.88	7.64	0.06	0.23	55052.27	7.44	0.06	0.26
55048.96	7.60	0.06	0.26	55052.34	7.53	0.06	0.25
55049.10	7.69	0.06	0.26	55052.41	7.56	0.06	0.25
55049.24	7.48	0.06	0.29	55052.48	7.56	0.06	0.27
55049.31	7.67	0.06	0.33	55052.55	7.48	0.06	0.28
55049.38	7.32	0.05	0.31	55052.70	7.50	0.06	0.29
55049.45	7.28	0.05	0.31	55052.77	7.50	0.06	0.30
55049.66	7.20	0.05	0.36	55053.26	7.91	0.07	0.29
55049.73	7.18	0.05	0.37	55053.33	7.84	0.07	0.28
55049.87	7.17	0.05	0.38	55053.40	7.93	0.07	0.27
55049.94	7.04	0.05	0.39	55053.47	7.98	0.07	0.25
55050.01	7.08	0.05	0.38	55053.54	7.91	0.07	0.25
55050.08	6.94	0.05	0.44	55053.61	7.91	0.07	0.24
55050.16	7.03	0.05	0.40	55053.68	8.00	0.07	0.21
55050.23	6.98	0.05	0.42	55053.75	8.11	0.08	0.20
55050.44	7.13	0.05	0.39	55053.82	7.90	0.07	0.19
55050.72	7.28	0.05	0.34	55053.89	8.12	0.08	0.17
55050.79	7.34	0.05	0.32	55053.96	8.29	0.08	0.14
55051.00	7.37	0.06	0.31	55054.04	8.09	0.08	0.16
55051.14	7.57	0.06	0.27	55054.11	7.92	0.07	0.18
55051.21	7.55	0.06	0.28	55054.18	8.34	0.09	0.15
55051.29	7.65	0.06	0.24	55054.25	8.19	0.08	0.16
55051.36	7.58	0.06	0.27	55054.32	8.05	0.08	0.19
55051.43	7.57	0.06	0.28	55054.39	7.88	0.07	0.22
55051.50	7.54	0.06	0.27	55054.53	7.85	0.07	0.24
55051.57	7.62	0.06	0.26	55054.60	8.34	0.09	0.24
55051.64	7.58	0.06	0.26	55054.67	8.21	0.08	0.26

Table 12
SMEI light curve data for Nova RS Oph

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
53775.77	7.79	0.06	53781.41	4.85	0.02	53785.22	5.72	0.02
53775.84	7.42	0.05	53781.48	4.90	0.02	53785.29	5.72	0.02
53776.26	7.07	0.04	53781.55	4.96	0.02	53785.37	5.66	0.02
53778.03	6.18	0.03	53781.63	4.99	0.02	53785.44	5.66	0.02
53778.10	5.66	0.02	53781.70	4.95	0.02	53785.51	5.67	0.02
53778.17	5.30	0.02	53781.77	5.00	0.02	53785.58	5.72	0.02
53778.24	4.93	0.02	53781.84	5.00	0.02	53785.65	5.72	0.02
53778.31	4.59	0.01	53781.91	4.93	0.02	53785.72	5.63	0.02
53778.38	4.44	0.01	53781.98	5.02	0.02	53785.79	5.64	0.02
53778.45	4.46	0.01	53782.05	5.00	0.02	53785.86	5.59	0.02
53778.52	4.36	0.01	53782.12	5.11	0.02	53785.93	5.63	0.02
53778.59	4.20	0.01	53782.19	5.06	0.02	53786.00	5.73	0.02
53778.66	4.09	0.01	53782.26	5.13	0.02	53786.07	5.75	0.02
53778.73	3.97	0.01	53782.75	5.19	0.02	53786.14	5.75	0.02
53778.80	3.93	0.01	53782.82	5.26	0.02	53786.21	5.77	0.02
53778.87	3.93	0.01	53782.90	5.25	0.02	53786.28	5.77	0.02
53778.94	3.87	0.01	53782.97	5.30	0.02	53786.35	5.75	0.02
53779.01	3.93	0.01	53783.04	5.29	0.02	53786.42	5.74	0.02
53779.09	3.98	0.01	53783.11	5.30	0.02	53786.49	5.79	0.02
53779.16	4.03	0.01	53783.18	5.33	0.02	53786.56	5.78	0.02
53779.23	4.12	0.01	53783.25	5.32	0.02	53786.78	5.77	0.02
53779.30	4.16	0.01	53783.32	5.36	0.02	53786.85	5.83	0.02
53779.37	4.23	0.01	53783.39	5.27	0.02	53786.92	5.80	0.02
53779.44	4.26	0.01	53783.53	5.34	0.02	53786.99	5.84	0.02
53779.51	4.29	0.01	53783.60	5.33	0.02	53787.06	5.80	0.02
53779.58	4.39	0.01	53783.67	5.35	0.02	53787.20	5.82	0.02
53779.65	4.38	0.01	53783.74	5.38	0.02	53787.27	5.88	0.03
53779.72	4.46	0.01	53783.81	5.36	0.02	53787.34	5.93	0.03
53779.79	4.47	0.01	53783.88	5.38	0.02	53787.41	5.91	0.03
53779.86	4.51	0.01	53783.95	5.38	0.02	53787.48	5.98	0.03
53779.93	4.56	0.01	53784.02	5.37	0.02	53787.55	5.89	0.03
53780.00	4.59	0.01	53784.10	5.47	0.02	53787.69	6.00	0.03
53780.07	4.59	0.01	53784.17	5.47	0.02	53787.76	6.09	0.03
53780.14	4.59	0.01	53784.24	5.38	0.02	53787.83	5.95	0.03
53780.21	4.63	0.01	53784.31	5.56	0.02	53787.91	6.08	0.03
53780.28	4.63	0.01	53784.38	5.45	0.02	53787.98	6.00	0.03
53780.36	4.62	0.01	53784.45	5.46	0.02	53790.16	6.24	0.03
53780.43	4.67	0.01	53784.52	5.48	0.02	53790.37	6.11	0.03
53780.50	4.67	0.01	53784.59	5.51	0.02	53790.45	6.21	0.03
53780.57	4.66	0.01	53784.66	5.53	0.02	53794.47	6.23	0.03
53780.64	4.73	0.01	53784.73	5.53	0.02	53794.68	6.05	0.03
53780.71	4.72	0.01	53784.80	5.59	0.02	53794.75	6.10	0.03
53780.78	4.73	0.01	53784.87	5.60	0.02	53794.82	6.46	0.03
53780.85	4.71	0.01	53784.94	5.67	0.02	53794.89	6.48	0.03
53780.92	4.73	0.01	53785.01	5.60	0.02	53794.96	6.15	0.03
53781.27	4.91	0.02	53785.08	5.71	0.02			
53781.34	4.88	0.02	53785.15	5.65	0.02			

Table 13
SMEI light curve data for Nova V1280 Sco

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
54144.61	6.19	0.03	54149.83	4.56	0.01	54154.91	4.98	0.02
54144.68	6.18	0.03	54149.90	4.46	0.01	54154.98	4.97	0.02
54144.75	6.20	0.03	54149.97	4.34	0.01	54155.05	4.98	0.02
54144.82	6.19	0.03	54150.04	4.25	0.01	54155.12	5.00	0.02
54144.89	6.16	0.03	54150.11	4.16	0.01	54155.19	4.98	0.02
54144.96	6.16	0.03	54150.18	4.13	0.01	54155.26	4.96	0.02
54145.24	6.14	0.03	54150.25	4.13	0.01	54155.33	4.97	0.02
54145.31	6.20	0.03	54150.32	4.15	0.01	54155.40	4.98	0.02
54145.38	6.10	0.03	54150.39	4.22	0.01	54155.47	5.02	0.02
54145.52	6.02	0.03	54150.53	4.44	0.01	54155.54	5.04	0.02
54145.59	5.89	0.02	54150.60	4.57	0.01	54155.61	5.06	0.02
54145.66	5.81	0.02	54150.67	4.74	0.01	54155.68	5.08	0.02
54145.73	5.70	0.02	54150.74	4.92	0.02	54155.75	5.10	0.02
54145.80	5.59	0.02	54150.81	4.94	0.02	54155.82	5.09	0.02
54145.88	5.48	0.02	54150.88	4.89	0.02	54155.89	5.05	0.02
54145.95	5.37	0.02	54150.95	4.85	0.02	54155.96	5.07	0.02
54146.02	5.30	0.02	54151.03	4.81	0.01	54156.03	5.03	0.02
54146.09	5.27	0.02	54151.10	4.81	0.01	54156.10	5.03	0.02
54146.23	5.23	0.02	54151.17	4.86	0.02	54156.18	5.04	0.02
54146.30	5.24	0.02	54151.24	4.85	0.02	54156.25	5.03	0.02
54146.37	5.23	0.02	54151.31	4.86	0.02	54156.32	5.03	0.02
54146.44	5.22	0.02	54151.38	4.80	0.01	54156.74	5.04	0.02
54146.51	5.24	0.02	54151.45	4.73	0.01	54156.81	5.03	0.02
54146.58	5.22	0.02	54151.52	4.68	0.01	54157.16	5.04	0.02
54146.65	5.23	0.02	54151.59	4.67	0.01	54157.23	5.06	0.02
54146.72	5.14	0.02	54151.66	4.68	0.01	54157.30	5.11	0.02
54146.79	4.75	0.01	54151.73	4.71	0.01	54157.37	5.14	0.02
54146.86	4.37	0.01	54151.80	4.71	0.01	54157.45	5.15	0.02
54146.93	4.12	0.01	54151.87	4.71	0.01	54157.52	5.15	0.02
54147.00	4.05	0.01	54151.94	4.69	0.01	54157.59	5.16	0.02
54147.07	4.00	0.01	54152.22	4.78	0.01	54157.66	5.20	0.02
54147.15	4.00	0.01	54152.30	4.75	0.01	54157.73	5.22	0.02
54147.22	4.02	0.01	54152.37	4.77	0.01	54157.80	5.25	0.02
54147.29	4.04	0.01	54152.44	4.77	0.01	54157.87	5.25	0.02
54147.36	4.14	0.01	54152.51	4.73	0.01	54157.94	5.29	0.02
54147.43	4.13	0.01	54152.58	4.65	0.01	54158.01	5.30	0.02
54147.50	4.19	0.01	54152.65	4.70	0.01	54158.08	5.32	0.02
54147.57	4.25	0.01	54152.72	4.75	0.01	54158.15	5.35	0.02
54147.64	4.41	0.01	54152.79	4.80	0.01	54158.22	5.40	0.02
54147.71	4.54	0.01	54152.86	4.87	0.02	54158.29	5.42	0.02
54147.78	4.68	0.01	54152.93	4.89	0.02	54158.36	5.44	0.02
54147.85	4.79	0.01	54153.00	4.92	0.02	54158.43	5.48	0.02
54147.92	4.85	0.02	54153.07	4.90	0.02	54158.50	5.49	0.02
54148.06	4.85	0.02	54153.14	4.85	0.02	54158.57	5.53	0.02
54148.13	4.73	0.01	54153.21	4.77	0.01	54158.64	5.51	0.02
54148.27	4.35	0.01	54153.28	4.77	0.01	54158.72	5.53	0.02
54148.34	4.23	0.01	54153.35	4.77	0.01	54158.79	5.57	0.02
54148.41	4.24	0.01	54153.42	4.80	0.01	54158.86	5.55	0.02
54148.49	4.25	0.01	54153.49	4.83	0.02	54158.93	5.60	0.02
54148.56	4.29	0.01	54153.56	4.84	0.02	54159.28	5.63	0.02
54148.63	4.33	0.01	54153.64	4.86	0.02	54159.35	5.73	0.02
54148.70	4.41	0.01	54153.71	4.85	0.02	54159.42	5.81	0.02
54148.77	4.49	0.01	54153.78	4.86	0.02	54159.49	5.87	0.02
54148.84	4.56	0.01	54153.85	4.88	0.02	54159.56	5.92	0.02
54148.91	4.64	0.01	54153.92	4.87	0.02	54159.63	5.95	0.03
54148.98	4.68	0.01	54154.06	4.84	0.02	54159.70	5.94	0.03
54149.05	4.71	0.01	54154.13	4.84	0.02	54159.77	5.95	0.03
54149.12	4.71	0.01	54154.20	4.83	0.02	54159.84	5.99	0.03
54149.19	4.74	0.01	54154.27	4.83	0.02	54159.98	6.00	0.03
54149.26	4.76	0.01	54154.34	4.87	0.02	54160.13	6.07	0.03
54149.33	4.79	0.01	54154.41	4.88	0.02	54160.27	6.19	0.03
54149.40	4.81	0.01	54154.48	4.86	0.02	54160.41	6.17	0.03
54149.47	4.80	0.01	54154.55	4.87	0.02	54160.48	6.18	0.03
54149.54	4.77	0.01	54154.62	4.86	0.02	54160.55	6.22	0.03
54149.61	4.74	0.01	54154.69	4.87	0.02	54160.62	6.23	0.03
54149.68	4.70	0.01	54154.76	4.89	0.02	54160.69	6.24	0.03
54149.76	4.64	0.01	54154.83	4.93	0.02	54160.76	6.26	0.03

Table 14
SMEI light curve data for Nova V1280 Sco continued

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
54160.83	6.25	0.03	54162.17	7.10	0.04	54163.37	8.21	0.07
54160.90	6.27	0.03	54162.24	7.12	0.04	54163.44	8.19	0.07
54160.97	6.34	0.03	54162.31	7.20	0.04	54163.51	8.04	0.06
54161.04	6.39	0.03	54162.38	7.14	0.04	54163.58	8.29	0.07
54161.11	6.42	0.03	54162.45	7.20	0.04	54163.65	8.10	0.07
54161.18	6.35	0.03	54162.52	7.30	0.05	54163.72	8.22	0.07
54161.40	6.45	0.03	54162.60	7.32	0.05	54163.79	8.31	0.07
54161.47	6.49	0.03	54162.67	7.42	0.05	54163.87	8.69	0.09
54161.54	6.53	0.03	54162.74	7.55	0.05	54163.94	9.08	0.10
54161.61	6.63	0.03	54162.81	7.55	0.05	54164.01	8.86	0.09
54161.68	6.66	0.03	54162.88	7.55	0.05	54164.08	9.78	0.14
54161.75	6.61	0.03	54162.95	7.57	0.05	54164.15	9.41	0.12
54161.82	6.69	0.04	54163.02	7.80	0.06	54164.22	10.02	0.16
54161.89	6.79	0.04	54163.09	7.60	0.05	54164.29	9.72	0.14
54161.96	6.95	0.04	54163.16	7.69	0.06	54164.36	11.18	0.27
54162.03	6.96	0.04	54163.23	7.79	0.06	54164.43	10.21	0.17
54162.10	7.03	0.04	54163.30	7.61	0.05	54164.71	10.70	0.22

Table 15
SMEI light curve data for Nova V598 Pup

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
54248.82	9.60	0.14	54258.13	3.84	0.01	54282.32	10.65	0.22
54254.47	7.54	0.05	54258.20	3.84	0.01	54282.54	9.38	0.12
54254.61	6.36	0.03	54258.28	3.89	0.01	54282.68	9.57	0.14
54254.68	6.06	0.03	54258.35	3.95	0.01	54282.82	9.28	0.12
54254.75	5.88	0.03	54258.42	3.99	0.01	54282.89	11.51	0.33
54254.82	5.57	0.02	54258.49	4.04	0.01	54283.38	7.16	0.05
54254.96	4.94	0.02	54258.56	4.19	0.01	54283.45	7.19	0.05
54255.03	5.08	0.02	54258.63	4.08	0.01	54283.52	8.90	0.10
54255.10	5.24	0.02	54258.70	4.10	0.01	54283.59	10.36	0.19
54255.17	5.13	0.02	54258.77	4.15	0.01	54283.66	7.03	0.04
54255.24	5.05	0.02	54258.98	4.27	0.01	54283.73	7.18	0.05
54255.31	4.77	0.02	54259.05	4.28	0.01	54283.80	6.85	0.04
54255.38	4.72	0.01	54259.12	4.33	0.01	54286.84	7.40	0.05
54255.45	4.62	0.01	54259.19	4.34	0.01	54286.91	7.55	0.05
54255.52	4.49	0.01	54259.26	4.41	0.01	54287.05	7.75	0.06
54255.59	4.34	0.01	54259.33	4.43	0.01	54287.12	8.43	0.08
54255.67	4.38	0.01	54279.71	7.04	0.04	54287.19	7.96	0.07
54255.74	4.29	0.01	54279.79	7.07	0.04	54287.26	8.24	0.07
54255.81	4.04	0.01	54279.86	6.87	0.04	54287.33	8.02	0.07
54255.88	4.06	0.01	54280.07	7.10	0.04	54287.40	8.23	0.07
54255.95	3.90	0.01	54280.14	7.19	0.05	54287.47	8.27	0.08
54256.02	3.97	0.01	54280.21	7.13	0.04	54287.54	8.02	0.07
54256.09	3.92	0.01	54280.28	6.98	0.04	54287.61	9.09	0.11
54256.16	3.87	0.01	54280.35	7.19	0.05	54287.68	8.16	0.07
54256.23	3.68	0.01	54280.42	7.18	0.05	54287.75	8.21	0.07
54256.30	3.62	0.01	54280.49	7.32	0.05	54288.18	7.97	0.07
54256.65	3.49	0.01	54280.56	7.19	0.05	54288.25	7.95	0.06
54256.72	3.50	0.01	54280.63	7.27	0.05	54288.32	7.64	0.06
54256.79	3.67	0.01	54280.70	7.31	0.05	54288.46	7.50	0.05
54256.94	3.48	0.01	54280.77	7.39	0.05	54288.53	8.01	0.07
54257.29	3.46	0.01	54280.84	7.14	0.04	54288.60	8.94	0.10
54257.36	3.57	0.01	54281.34	7.23	0.05	54288.67	8.71	0.09
54257.43	3.48	0.01	54281.41	7.81	0.06	54288.74	7.76	0.06
54257.50	3.52	0.01	54281.48	7.91	0.06	54288.81	7.72	0.06
54257.57	3.53	0.01	54281.55	8.20	0.07	54288.88	7.64	0.06
54257.64	3.57	0.01	54281.62	7.84	0.06	54288.95	7.92	0.06
54257.71	3.62	0.01	54281.69	7.54	0.05	54289.16	8.46	0.08
54257.78	3.61	0.01	54281.76	7.88	0.06	54289.23	8.36	0.08
54257.99	3.81	0.01	54282.04	9.53	0.13	54289.31	8.52	0.08
54258.06	3.82	0.01	54282.18	8.63	0.09	54289.38	7.90	0.06

Table 16
SMEI light curve data for Nova V598 Pup continued

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
54289.45	8.44	0.08	54309.27	8.23	0.07	54315.12	7.93	0.06
54289.52	8.73	0.09	54309.34	8.28	0.08	54315.19	9.62	0.14
54289.66	8.12	0.07	54309.41	8.00	0.07	54315.40	15.13	1.71
54289.73	7.96	0.07	54309.48	7.79	0.06	54315.54	8.31	0.08
54289.80	7.81	0.06	54309.55	7.87	0.06	54315.61	8.73	0.09
54289.87	8.31	0.08	54309.62	7.84	0.06	54315.76	10.90	0.25
54289.94	7.99	0.07	54309.69	10.94	0.25	54315.83	9.13	0.11
54290.01	7.67	0.06	54309.76	7.68	0.06	54315.90	8.61	0.09
54290.08	7.73	0.06	54309.83	8.33	0.08	54315.97	9.68	0.14
54290.15	7.76	0.06	54309.90	8.21	0.07	54316.04	8.39	0.08
54292.90	8.37	0.08	54309.97	8.68	0.09	54316.11	9.14	0.11
54292.97	7.67	0.06	54310.04	8.58	0.09	54316.18	8.06	0.07
54293.04	7.73	0.06	54310.11	8.65	0.09	54316.25	7.62	0.06
54293.11	7.72	0.06	54310.18	8.61	0.09	54316.32	8.47	0.08
54293.18	7.69	0.06	54310.25	8.31	0.08	54316.39	8.95	0.10
54293.25	7.83	0.06	54310.32	9.13	0.11	54316.53	8.38	0.08
54293.33	7.32	0.05	54310.39	8.73	0.09	54316.60	8.39	0.08
54293.40	7.81	0.06	54310.47	9.05	0.11	54316.67	8.67	0.09
54293.47	7.77	0.06	54310.61	9.08	0.11	54316.74	8.33	0.08
54293.54	7.78	0.06	54310.68	8.04	0.07	54316.81	8.64	0.09
54293.61	7.48	0.05	54310.75	9.22	0.12	54316.88	8.35	0.08
54293.68	7.53	0.05	54310.82	11.30	0.30	54317.10	9.54	0.13
54293.75	7.93	0.06	54310.89	9.57	0.14	54317.31	10.29	0.19
54293.82	7.89	0.06	54310.96	7.92	0.06	54317.38	10.89	0.25
54293.89	7.55	0.05	54311.17	8.71	0.09	54317.45	8.62	0.09
54293.96	8.06	0.07	54311.31	8.49	0.08	54317.52	7.82	0.06
54297.06	12.19	0.45	54311.38	9.26	0.12	54317.59	9.60	0.14
54297.84	7.82	0.06	54311.45	7.49	0.05	54317.66	8.23	0.07
54297.91	7.41	0.05	54311.52	8.81	0.10	54317.73	8.28	0.08
54297.98	8.18	0.07	54311.59	11.19	0.28	54317.80	7.75	0.06
54298.05	8.76	0.09	54311.74	14.67	1.38	54317.87	9.46	0.13
54298.12	7.53	0.05	54311.81	8.37	0.08	54317.94	8.10	0.07
54298.19	7.23	0.05	54311.88	5.97	0.03	54318.01	7.95	0.06
54298.26	12.24	0.46	54312.02	8.84	0.10	54318.08	8.17	0.07
54298.33	7.75	0.06	54312.09	7.17	0.05	54318.15	7.26	0.05
54298.40	7.92	0.06	54312.16	8.24	0.07	54318.22	11.12	0.27
54298.47	7.97	0.07	54312.23	6.06	0.03	54318.30	8.48	0.08
54298.54	7.92	0.06	54312.30	6.15	0.03	54318.44	8.41	0.08
54298.62	6.70	0.04	54312.37	7.36	0.05	54318.51	13.05	0.66
54298.76	8.19	0.07	54312.44	6.40	0.03	54318.58	9.05	0.11
54298.83	7.06	0.04	54312.51	5.95	0.03	54318.65	8.41	0.08
54303.20	13.64	0.86	54312.58	5.97	0.03	54318.72	8.69	0.09
54306.73	7.77	0.06	54312.65	5.91	0.03	54318.79	11.58	0.34
54306.80	9.09	0.11	54312.72	5.90	0.03	54318.86	8.96	0.10
54306.87	7.95	0.06	54312.79	6.40	0.03	54318.93	7.52	0.05
54306.94	8.17	0.07	54312.86	6.40	0.03	54319.00	8.52	0.08
54307.01	8.71	0.09	54312.93	6.02	0.03	54319.07	9.98	0.16
54307.15	9.80	0.15	54313.29	9.20	0.11	54319.21	8.34	0.08
54307.22	9.41	0.13	54313.36	6.45	0.03	54319.35	8.52	0.08
54307.29	9.06	0.11	54313.43	6.29	0.03	54319.42	7.46	0.05
54307.36	8.29	0.08	54313.50	7.06	0.04	54319.49	8.15	0.07
54307.43	9.76	0.15	54313.57	7.43	0.05	54319.57	11.33	0.30
54307.50	8.76	0.09	54313.78	7.84	0.06	54319.64	8.42	0.08
54307.57	9.11	0.11	54313.85	8.40	0.08	54319.71	7.40	0.05
54307.64	9.55	0.13	54313.92	7.28	0.05	54319.78	6.81	0.04
54307.71	10.08	0.17	54313.99	8.49	0.08	54319.85	8.53	0.08
54307.78	9.05	0.11	54314.06	7.90	0.06	54319.92	8.36	0.08
54308.00	10.45	0.20	54314.13	8.64	0.09	54319.99	8.22	0.07
54308.07	8.37	0.08	54314.20	7.08	0.04	54320.27	8.90	0.10
54308.14	7.68	0.06	54314.27	11.04	0.26	54320.34	8.23	0.07
54308.28	9.97	0.16	54314.35	8.41	0.08	54320.41	8.18	0.07
54308.35	7.61	0.06	54314.42	8.35	0.08	54320.48	7.79	0.06
54308.42	7.39	0.05	54314.49	7.53	0.05	54320.55	8.14	0.07
54308.49	10.21	0.18	54314.63	7.54	0.05	54320.62	8.51	0.08
54308.56	7.47	0.05	54314.70	7.92	0.06	54320.69	8.67	0.09
54308.63	9.67	0.14	54314.77	8.38	0.08	54320.76	8.32	0.08
54308.70	6.45	0.03	54314.84	7.59	0.06	54320.84	9.45	0.13
54308.84	8.93	0.10	54314.91	8.91	0.10	54320.91	8.72	0.09
54308.92	7.53	0.05	54314.98	8.69	0.09	54321.12	8.64	0.09
54308.98	7.94	0.06	54315.05	7.53	0.05	54321.19	7.80	0.06

Table 17
SMEI light curve data for Nova V598 Pup continued

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
54321.26	8.26	0.07	54324.86	8.51	0.08	54328.10	8.19	0.07
54321.47	8.56	0.09	54324.93	9.02	0.11	54328.17	8.40	0.08
54321.54	8.73	0.09	54325.14	7.23	0.05	54328.24	8.58	0.09
54321.61	9.40	0.13	54325.21	7.67	0.06	54328.31	8.39	0.08
54321.68	9.08	0.11	54325.28	10.04	0.17	54328.45	10.60	0.22
54321.75	9.88	0.16	54325.35	9.85	0.15	54328.67	9.57	0.14
54321.82	9.48	0.13	54325.42	7.43	0.05	54328.74	9.56	0.13
54321.89	6.84	0.04	54325.63	8.67	0.09	54328.81	8.16	0.07
54321.96	9.38	0.12	54325.70	8.47	0.08	54328.88	8.27	0.08
54322.10	8.04	0.07	54325.77	7.99	0.07	54328.95	9.24	0.12
54322.18	11.40	0.31	54325.84	9.75	0.15	54329.02	7.62	0.06
54322.25	8.53	0.08	54325.91	8.30	0.08	54329.09	8.58	0.09
54322.32	9.09	0.11	54325.98	8.70	0.09	54329.16	8.87	0.10
54322.39	7.61	0.06	54326.06	9.49	0.13	54329.23	9.06	0.11
54322.46	6.88	0.04	54326.20	6.47	0.03	54329.37	8.51	0.08
54322.53	7.10	0.04	54326.27	8.20	0.07	54329.44	10.23	0.18
54322.60	8.16	0.07	54326.34	10.41	0.20	54329.51	8.49	0.08
54322.67	7.18	0.05	54326.41	8.53	0.08	54329.58	9.00	0.10
54322.74	7.73	0.06	54326.48	9.59	0.14	54329.65	8.43	0.08
54322.95	7.65	0.06	54326.55	7.47	0.05	54329.72	9.09	0.11
54323.23	8.04	0.07	54326.62	9.28	0.12	54329.79	9.20	0.11
54323.37	9.96	0.16	54326.76	8.02	0.07	54329.87	11.10	0.27
54323.45	9.68	0.14	54326.83	8.39	0.08	54329.94	8.55	0.09
54323.59	8.15	0.07	54326.90	9.02	0.11	54330.01	8.21	0.07
54323.66	6.88	0.04	54326.97	8.01	0.07	54330.08	11.81	0.38
54323.73	9.08	0.11	54327.25	8.02	0.07	54330.15	8.35	0.08
54323.80	7.46	0.05	54327.33	9.54	0.13	54330.29	8.54	0.09
54323.87	7.86	0.06	54327.40	9.27	0.12	54330.36	8.33	0.08
54323.94	7.62	0.06	54327.47	7.47	0.05	54330.43	7.37	0.05
54324.01	7.97	0.07	54327.54	9.75	0.15	54330.50	7.79	0.06
54324.08	8.34	0.08	54327.61	9.44	0.13	54330.57	9.18	0.11
54324.15	7.64	0.06	54327.68	9.20	0.11	54330.64	8.78	0.09
54324.29	7.98	0.07	54327.75	7.76	0.06	54330.71	7.83	0.06
54324.57	7.95	0.06	54327.82	9.19	0.11	54330.85	9.85	0.15
54324.64	7.37	0.05	54327.89	9.00	0.10	54330.99	8.70	0.09
54324.72	7.43	0.05	54327.96	9.17	0.11			
54324.79	7.56	0.05	54328.03	8.78	0.09			

Table 18
SMEI light curve data for Nova KT Eri

Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error	Date-Obs MJD	SMEI Mag	SMEI Error
55146.99	9.51	0.15	55152.35	6.50	0.04	55156.80	7.66	0.06
55148.12	8.44	0.09	55152.43	6.53	0.04	55156.87	7.62	0.06
55148.19	8.05	0.08	55152.50	6.56	0.04	55156.94	7.63	0.06
55148.26	7.83	0.07	55152.57	6.60	0.04	55157.01	7.59	0.06
55148.33	7.50	0.06	55152.64	6.60	0.04	55157.08	7.59	0.06
55148.40	7.28	0.05	55152.71	6.61	0.04	55157.15	7.58	0.06
55148.47	7.01	0.05	55152.78	6.58	0.04	55157.22	7.56	0.06
55148.54	6.84	0.04	55152.85	6.52	0.04	55157.37	7.62	0.06
55148.62	6.67	0.04	55152.92	6.65	0.04	55157.44	7.56	0.06
55148.69	6.52	0.04	55153.27	6.69	0.04	55157.51	7.62	0.06
55148.76	6.35	0.04	55153.34	6.65	0.04	55157.58	7.65	0.06
55148.83	6.17	0.03	55153.41	6.72	0.04	55157.65	7.66	0.06
55148.90	5.94	0.03	55153.48	6.75	0.04	55157.72	7.56	0.06
55148.97	6.02	0.03	55153.55	6.72	0.04	55157.79	7.62	0.06
55149.25	5.78	0.03	55153.63	6.82	0.04	55157.86	7.68	0.06
55149.32	5.74	0.03	55153.70	6.88	0.04	55158.14	7.77	0.07
55149.39	5.61	0.03	55153.77	6.93	0.05	55158.21	7.84	0.07
55149.46	5.53	0.02	55153.84	6.93	0.05	55158.28	7.78	0.07
55149.53	5.47	0.02	55153.91	6.98	0.05	55158.35	7.76	0.07
55149.60	5.45	0.02	55153.98	7.01	0.05	55158.42	7.83	0.07
55149.67	5.42	0.02	55154.05	7.04	0.05	55158.56	7.84	0.07
55149.74	5.44	0.02	55154.12	7.03	0.05	55158.64	7.78	0.07
55149.81	5.47	0.02	55154.19	7.07	0.05	55158.71	7.96	0.07
55149.89	5.49	0.02	55154.26	7.11	0.05	55158.78	7.83	0.07
55149.96	5.59	0.02	55154.33	7.14	0.05	55158.85	7.92	0.07
55150.03	5.62	0.03	55154.40	7.20	0.05	55158.92	7.95	0.07
55150.10	5.65	0.03	55154.75	7.20	0.05	55158.99	8.01	0.07
55150.17	5.80	0.03	55154.82	7.21	0.05	55159.06	8.03	0.08
55150.24	5.85	0.03	55154.90	7.27	0.05	55159.13	8.03	0.08
55150.45	5.90	0.03	55154.97	7.29	0.05	55159.20	8.04	0.08
55150.52	5.88	0.03	55155.04	7.32	0.05	55159.27	8.05	0.08
55150.59	5.94	0.03	55155.11	7.30	0.05	55159.34	8.14	0.08
55150.66	5.95	0.03	55155.18	7.35	0.06	55159.41	8.19	0.08
55150.73	5.98	0.03	55155.25	7.28	0.05	55159.62	8.26	0.08
55150.80	6.01	0.03	55155.32	7.26	0.05	55159.69	8.25	0.08
55151.08	6.19	0.03	55155.39	7.22	0.05	55159.76	8.22	0.08
55151.16	6.19	0.03	55155.53	7.22	0.05	55159.84	8.26	0.08
55151.23	6.24	0.03	55155.60	7.23	0.05	55159.91	8.23	0.08
55151.30	6.23	0.03	55155.67	7.25	0.05	55159.98	8.17	0.08
55151.37	6.31	0.03	55155.74	7.30	0.05	55160.26	8.21	0.08
55151.44	6.34	0.03	55155.81	7.36	0.06	55160.33	8.24	0.08
55151.51	6.33	0.03	55155.88	7.36	0.06	55160.40	8.23	0.08
55151.58	6.34	0.03	55155.95	7.35	0.06	55160.47	8.20	0.08
55151.65	6.35	0.04	55156.02	7.35	0.06	55160.54	8.23	0.08
55151.72	6.36	0.04	55156.09	7.37	0.06	55160.61	8.35	0.09
55151.79	6.37	0.04	55156.17	7.34	0.05	55160.68	8.31	0.09
55151.86	6.38	0.04	55156.24	7.47	0.06	55160.82	8.35	0.09
55151.93	6.32	0.03	55156.31	7.52	0.06	55160.89	8.29	0.08
55152.00	6.43	0.04	55156.38	7.50	0.06	55160.96	8.29	0.08
55152.07	6.44	0.04	55156.52	7.55	0.06	55161.03	8.23	0.08
55152.14	6.47	0.04	55156.59	7.51	0.06	55161.11	8.35	0.09
55152.21	6.44	0.04	55156.66	7.59	0.06	55161.18	8.33	0.09
55152.28	6.52	0.04	55156.73	7.60	0.06	55162.23	8.27	0.08