

# 67P/Churyumov-Gerasimenko – 26/08/2015

**Telescopio o obiettivo di acquisizione (Imaging telescope or lens):** Newton SkyWatcher BlackDiamond 200 mm f/5

**Camera di acquisizione (Imaging camera):** CCD Atik 383L+ B/W [5.4  $\mu\text{m}$ ] @ -6°C

**Montatura (Mount):** SkyWatcher NEQ6

**Telescopio o obiettivo di guida (Guiding telescope or lens):**  
Rifrattore acromatico (refractor) SkyWatcher 102mm f/5

**Camera di guida (Guiding camera):** Magzero MZ-5m B/W [5.2  $\mu\text{m}$ ]

**Riduttore di focale (Focal reducer):** non presente (not present)

**Software (Software):** PixInsight 1.8 + Adobe Photoshop CC 2015

**Accessori (Accessories):** correttore di coma Baader MPCC Mark III (coma corrector)

**Filtri (Filter):** Astronomik CCD L,R,G,B. IDAS LPS-D1.

**Risoluzione (Resolution):** 3362 x 2504 (originale/original),  
1729 x 1251 (finale/final)

**Data (Date):** 26/08/2015

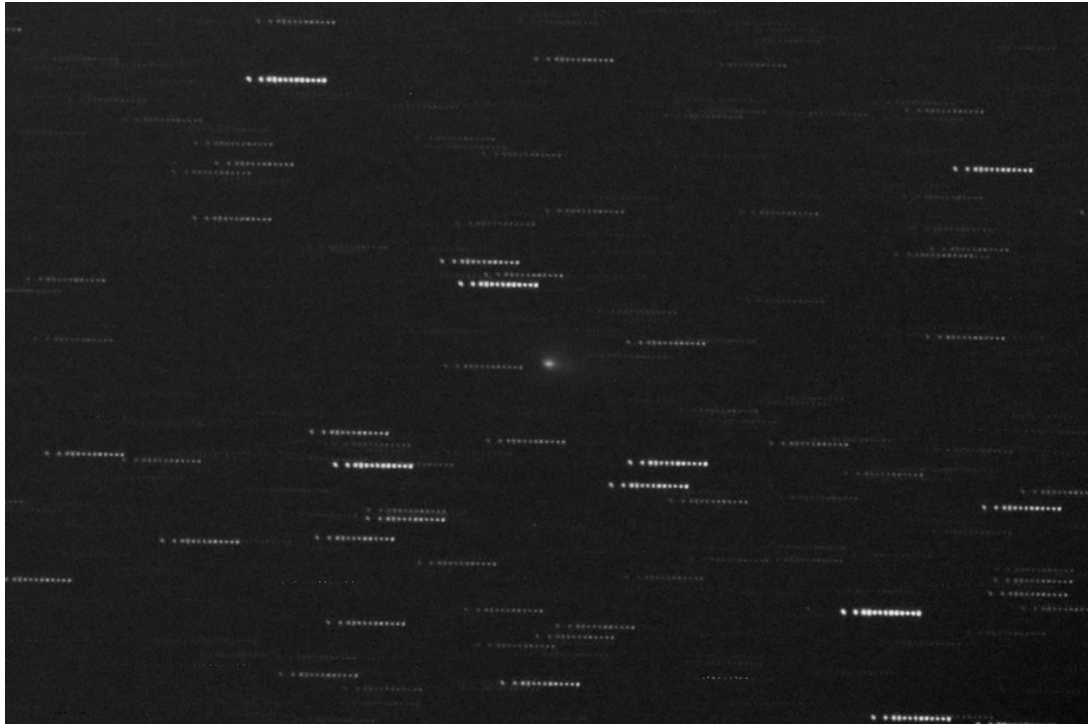
**Luogo (Location):** Briosco (MB), Italia (Italy)

**Pose (Frames):** 8 x 300 sec bin 1x1 L, 3 x 200 sec bin 2x2 R, 3 x 200 sec bin 2x2 G, 3 x 200 sec bin 2x2 B

**Calibrazione (Calibration):** 15 dark L, 15 dark RGB, 20 bias, 20 flat L, 20 flat R, 20 flat G, 20 flat B.

**Fase lunare media (Average Moon phase):** 87.9%

**Note (note):** Singolo frame ottenuto con PixInsight + Photoshop sia in modalità stelle e comete fisse che cometa fissa e stelle in moto. Video realizzato come sequenza di frame con PixInsight e Windows Movie Maker 2012. Riduzione effettuata con Astrometrica. Composizione a colori LRGB, cometa con stelle mosse è somma L+R+G+B.



Cometa 67P/Churyumov-Gerasimenko con stelle mosse -  
26/08/2015



Cometa 67P/Churyumov-Gerasimenko - 26/08/2015

## RIDUZIONE ASTROMETRICA

### LUMINANZA

|        |          |          |       |       |     |         |
|--------|----------|----------|-------|-------|-----|---------|
| 0067P  | C2015 08 | 27.10767 | 07 25 | 26.89 | +24 | 09      |
| 10.9   | 13.8 N   | XXX      |       |       |     |         |
| 0067P  | C2015 08 | 27.11337 | 07 25 | 28.14 | +24 | 09      |
| 09.9   | 13.8 N   | XXX      |       |       |     |         |
| 0067P  | C2015 08 | 27.12421 | 07 25 | 30.71 | +24 | 09 07.7 |
| 13.7 N | XXX      |          |       |       |     |         |
| 0067P  | C2015 08 | 27.12683 | 07 25 | 31.30 | +24 | 09      |
| 07.1   | 13.7 N   | XXX      |       |       |     |         |
| 0067P  | C2015 08 | 27.13709 | 07 25 | 33.73 | +24 | 09      |
| 05.3   | 13.8 N   | XXX      |       |       |     |         |
| 0067P  | C2015 08 | 27.13971 | 07 25 | 34.31 | +24 | 09      |
| 04.6   | 13.7 N   | XXX      |       |       |     |         |
| 0067P  | C2015 08 | 27.14997 | 07 25 | 36.65 | +24 | 09      |
| 05.2   | 13.7 N   | XXX      |       |       |     |         |

## ROSSO

|       |       |    |          |    |    |       |     |    |
|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.11657 | 07 | 25 | 28.91 | +24 | 09 |
| 09.1  | 13.2  | N  | XXX      |    |    |       |     |    |

|       |       |    |          |    |    |       |     |    |
|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.12946 | 07 | 25 | 31.91 | +24 | 09 |
| 06.8  | 13.1  | N  | XXX      |    |    |       |     |    |

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|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.14234 | 07 | 25 | 34.90 | +24 | 09 |
| 03.9  | 13.2  | N  | XXX      |    |    |       |     |    |

## VERDE

|       |       |    |          |    |    |       |     |    |
|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.11912 | 07 | 25 | 29.49 | +24 | 09 |
| 08.7  | 13.2  | N  | XXX      |    |    |       |     |    |

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|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.13200 | 07 | 25 | 32.49 | +24 | 09 |
| 06.2  | 13.2  | N  | XXX      |    |    |       |     |    |

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|--------|-------|----|----------|----|----|-------|-----|------|
| 0067P  | C2015 | 08 | 27.14488 | 07 | 25 | 35.49 | +24 | 09   |
| 13.2 N | XXX   |    |          |    |    |       |     | 03.3 |

## BLU

|       |       |    |          |    |    |       |     |    |
|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.12167 | 07 | 25 | 30.06 | +24 | 09 |
| 08.1  | 13.5  | N  | XXX      |    |    |       |     |    |

|       |       |    |          |    |    |       |     |    |
|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.13455 | 07 | 25 | 33.07 | +24 | 09 |
| 05.4  | 13.3  | N  | XXX      |    |    |       |     |    |

|       |       |    |          |    |    |       |     |    |
|-------|-------|----|----------|----|----|-------|-----|----|
| 0067P | C2015 | 08 | 27.14743 | 07 | 25 | 36.05 | +24 | 09 |
| 03.3  | 13.2  | N  | XXX      |    |    |       |     |    |

## RIDUZIONE FOTOMETRICA

### LUMINANZA

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|    |     |     |        |         |
|----|-----|-----|--------|---------|
| JD | mag | SNR | ZeroPt | Design. |
|----|-----|-----|--------|---------|

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|               |          |       |        |       |
|---------------|----------|-------|--------|-------|
| 2457261.60767 | 13.768 V | 65.11 | 26.033 | 0067P |
| 2457261.61337 | 13.763 V | 37.70 | 26.136 | 0067P |
| 2457261.62421 | 13.737 V | 73.59 | 25.816 | 0067P |
| 2457261.62683 | 13.749 V | 77.09 | 25.884 | 0067P |
| 2457261.63709 | 13.757 V | 78.28 | 25.986 | 0067P |
| 2457261.63971 | 13.728 V | 73.48 | 26.017 | 0067P |
| 2457261.64997 | 13.694 V | 38.52 | 26.015 | 0067P |

#### ROSSO

|               |          |       |        |       |
|---------------|----------|-------|--------|-------|
| 2457261.61657 | 13.173 V | 38.57 | 24.716 | 0067P |
| 2457261.62946 | 13.148 V | 55.53 | 24.862 | 0067P |
| 2457261.64234 | 13.157 V | 51.32 | 24.959 | 0067P |

#### VERDE

|               |          |       |        |       |
|---------------|----------|-------|--------|-------|
| 2457261.61912 | 13.159 V | 39.14 | 24.791 | 0067P |
| 2457261.63200 | 13.187 V | 53.24 | 24.959 | 0067P |
| 2457261.64488 | 13.230 V | 36.10 | 25.106 | 0067P |

#### BLU

|               |          |       |        |       |
|---------------|----------|-------|--------|-------|
| 2457261.62167 | 13.491 V | 31.65 | 24.265 | 0067P |
| 2457261.63455 | 13.280 V | 40.30 | 24.466 | 0067P |
| 2457261.64743 | 13.186 V | 17.80 | 24.592 | 0067P |