## s-GRB parameters

| Name of the GRB | | Number density (n0)(cm^-3) | Rotational energy(E52)(erg) | Ejecta mass (M_sun) | epsilon_B | epsilon_e | Presence of kilonova emission | Host galaxy detection |
|---|---|---|---|---|---|---|---|---|
| GRB 140903a | (Troja et al. 2016) | 0.032 +0.14 -0.06 | 4.3 +1.2 -2.0 | 0.01 and 0.1 | 2.1 +3.6 - 1.4 E-4 | 0.14 +0.19 -0.06 | Yes | From r band observation, calculated B band absolute magnitude in rest frame is ~ -20.9 mag |
| GRB 050709 | Fox et al. 2005 | 0.0001 - 1 , best fit 0.01 | 6.9 × 10^-3; best fit 5 × 10^-4 | ---------- | 1/3 | 1/3 | Yes, check Jin et al. 2016 | It was observed on the outskirts of of a star forming galaxy of redshift z = 0.160 ± 0.001 |
| | | | mentioned in Fox et al. 2005 | | | | | |
| GRB 061210 | No papers found with the afterglow properties for this burst | | | | | | | |
| GRB 100625a | (Fong et al. 2013) | 1.5 | 0.012 | ---------- | 0.1 | 0.1 | Nothing in papers | |
| | | 40 | 0.017 | ---------- | 0.01 | 0.1 | | |

| Telescope | Time since burst (year) | Filter | Exposure time (s) | Host (AB mag) |
|---|---|---|---|---|
| GEMINI-S | 0.52 | r | 5 × 120 | 22.76 ± 0.23 |
| GEMINI-S | 0.53 | i | 3 × 120 | 22.10 ± 0.15 |
| GEMINI-S | 0.54 | z | 5 × 120 | 22.23 ± 0.15 |
| GEMINI-S | 2.62 | r | 5 × 120 | 22.63 ± 0.09 |
| GEMINI-S | 2.63 | i | 5 × 120 | 22.14 ± 0.04 |
| GEMINI-S | 2.64 | z | 5 × 120 | 22.07 ± 0.10 |
| Magellan | 1.62 | J | 35 × 60 | 21.48 ± 0.05 |
| Magellan | 6.63 | J | 18 × 180 | 21.40 ± 0.06 |
| Magellan | 141.3 | g | 2 × 420 | 23.87 ± 0.19 |
| Magellan | 141.4 | r | 1 × 240 | 22.04 ± 0.07 |
| Magellan | 141.4 | i | 1 × 360 | 22.59 ± 0.13 |
| Magellan | 141.4 | z | 1 × 180 | 21.88 ± 0.22 |
| Magellan | 529.4 | K s | 90 × 10 | 20.76 ± 0.10 |