A Survey of Protostars and Disks in the Embedded Clusters GGD 12-15 and IRAS 20050+2720: New Results from Spitzer


GGD 12-15

Abstract

We present preliminary analysis of 1-8 \(\mu m\) photometry of the nearby (0.7-0.8 kpc) young (<1 Myr) stellar clusters GGD 12-15 and IRAS 20050+2720 from IRAC on Spitzer, FLAMINGOS on MMT, and 2MASS. Each cluster has on the order of 100 members in a high density asymmetric configuration as well as significant outflow activity. However, their far-infrared luminosities differ by more than an order of magnitude. Combined ground-based near-infrared and IRAC colors are used to identify stars with circumstellar disks. Class I (protostars) and Class II (stars with disks) objects are classified via IRAC 3-8 \(\mu m\) color analysis. The spatial distributions of all young stars with infrared excess emission detected are compared with published gas and dust distributions for these regions.

IRAS 20050+2720

REFERENCES