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Radio Emission Toward Regions of Massive Star Formation in the Large Magellanic Cloud ADAM JOHANSON, VICTOR MIGENES, Brigham Young University — A survey for radio emission at 6 GHz and 9 GHz toward three regions of massive star formation in the Large Magellanic Cloud revealed eight ultracompact HII regions associated with known high-mass young stellar objects. Three of these are first-time detections. We find that they occupy a specific region of color-magnitude space, and suggest this criteria be used for future searches of ultracompact HII regions. An additional 30 compact sources were imaged, 19 of which are new detections. Many of these objects are active galactic nuclei candidates based on their radio spectral indices and mid-infrared colors.

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