

Literature on RCW49 (G284.3-0.3)

Moffat, A. F., Shara, M. M., Potter, M. 1991, AJ, 102, 642

“New WR Stars in Galactic Open Clusters: Sher 1 and the Giant HII Region Core Westerlund 2” Reports detection of a WN4 star in Sher 1 and a WN7 star in West 2. Some photometry of stars in both clusters is given.

Shara, M. M., Moffat, A. F. J., Smith, L. F., Potter, M. 1991, AJ, 102, 716

“A Deep Survey for Galactic WR Stars: I. Motivation, Search Technique, and First Results” Reports photometry results for 13 WR stars, one of which is the one in West 2.

Goldwurm, A., Caraveo, P. A., Bignami, G. F. 1987, ApJ, 322, 349

“Diffuse EINSTEIN W-Ray Emission from the Region of RCW49, A Bright Southern Emission Nebula” Reports extended X-Ray emission associated with the RCW 49 HII region. May be consistent with the central source (cluster?) of diffuse emission. X-ray flux appears greater than expected for an HII region like RCW49. Possibly a background source?

Belloni, T., Mereghetti, S. 1994, A&A, 286, 935

“ROSAT Observations of the Giant HII region RCW49”

Detected diffuse X-ray emission from the core of RCW49 and a fainter region where no optical emission is apparent. West 2 is coincident with the central emission peak in X-rays. This is resolved into 3 point sources. Two of the 3 WR stars in the field are tentatively identified as X-ray sources.

Whiteoak, J. B. Z., Uchida, K. I. 1997, A&A, 317, 563

“High-resolution radio observations of RCW 49”

843 Mhz images of RCW49 using the Molonglo Synthesis telescope (HPBW=43"x51") and ATCA images at 1.38 and 2.38 Ghz (HPBW=12" and 7" respectively). Wind blown bubbles seen around West 2 and one around WR20b. Gives a good high resolution view of the HII bubbles and morphology of the region. Interpretation of the radio data looks reasonable. Also, a lot of useful references are given on earlier radio data on this source including radio masers and other molecular observations. A good discussion of the distance is included. There is some uncertainty about the distance.

Caswell, J. L. 1998, MNRAS, 297, 215

OH 1665 & 1667 masers in RCW49

Caswell, J. L. 1997, MNRAS, 289, 203

OH 6.035 MHz & CH₃OH 6.668 Ghz maser

Batchelor et al. 1980, Aust. J. Phys., 33, 139

H₂O maser survey includes RCW 49

Haynes, Caswell, Simons 1978, MNRAS, 182, 209

Ibid, 1979, Aust. J. Phys., 48, 1

6 cm cont survey of the Galactic plane (HPBW=4.1')

Goss and Shaver, 1970, Aust. J. Phys. Suppl., No. 14, 1-75---5 GHz images

Shaver and Goss 1970, Aust. J. Phys. Suppl., No. 14, 77—408 MHz images

Should also include Martin's list of calibrators for the OSV area