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A multiwavelength view of NGC 3998 and its neighbours. The SDSS *R* image of NGC 3998 is shown with HI (blue) and Radio Continuum contours (black). The deep radio observations were acquired with the WSRT. The HI illustrates the tumultuous merger history of the galaxies, and indicates how NGC 3998 may have accreted most of its HI. The radio continuum traces star formation in the neighbouring galaxies, but shows a peculiar S-shaped bubble-type morphology in NGC 3998, which we suspect to be driven by recurrent emission of the central AGN.

