

MS-DOS Prompt 

C:\>The detection of radio emission from the latest type ultracool dwarf in a circular polarisation search



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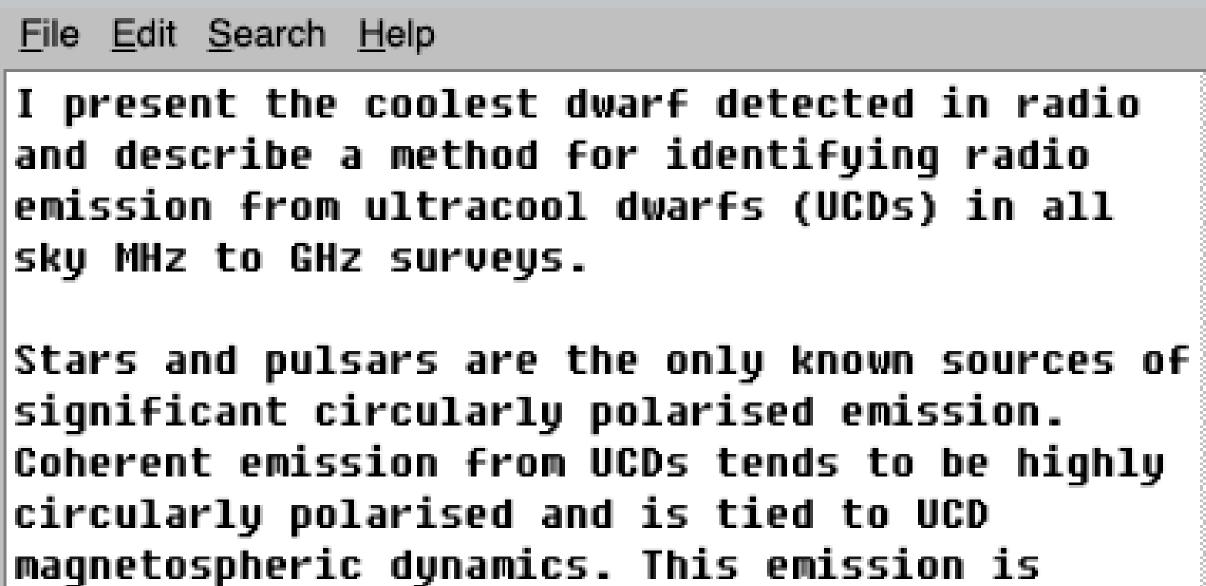
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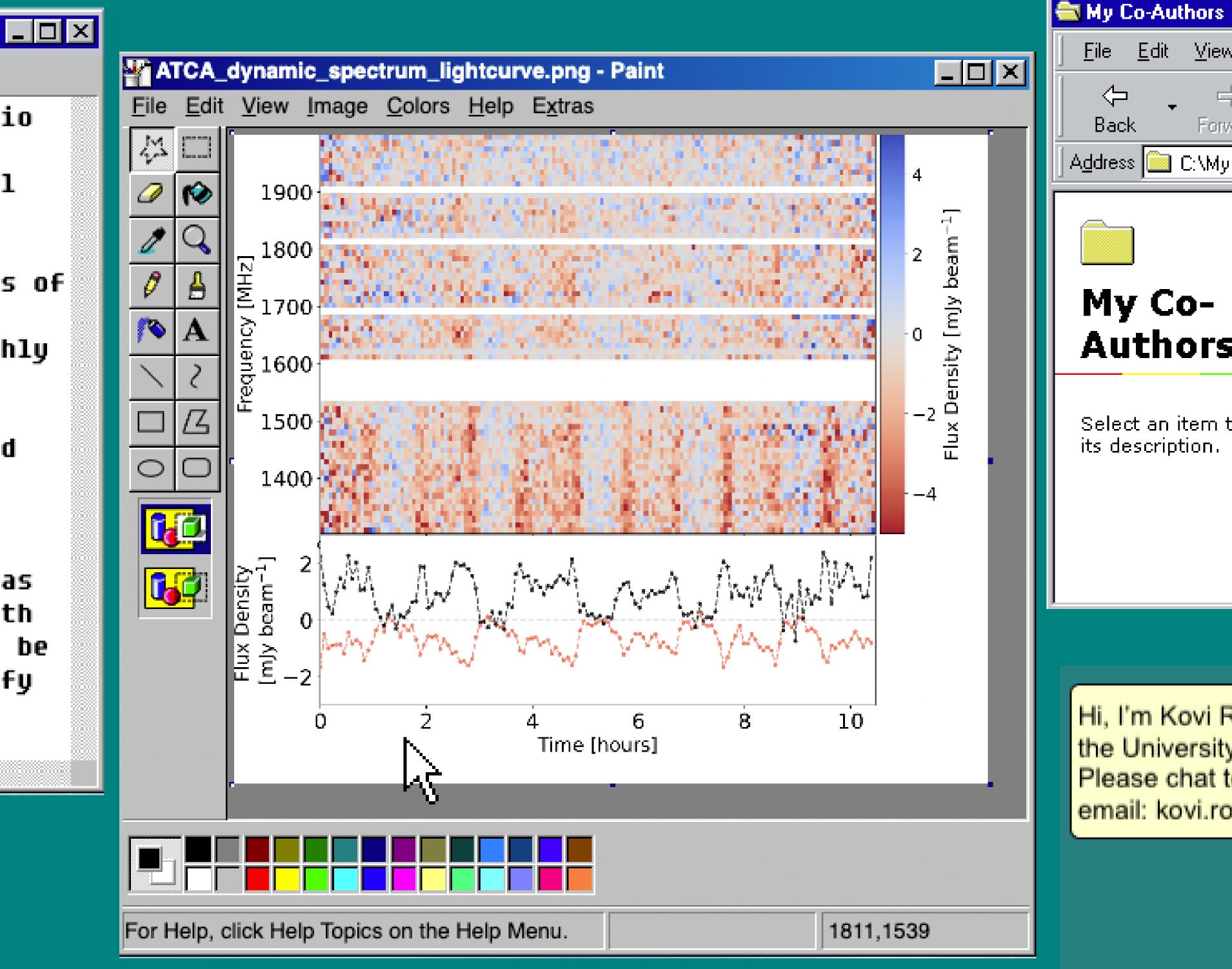


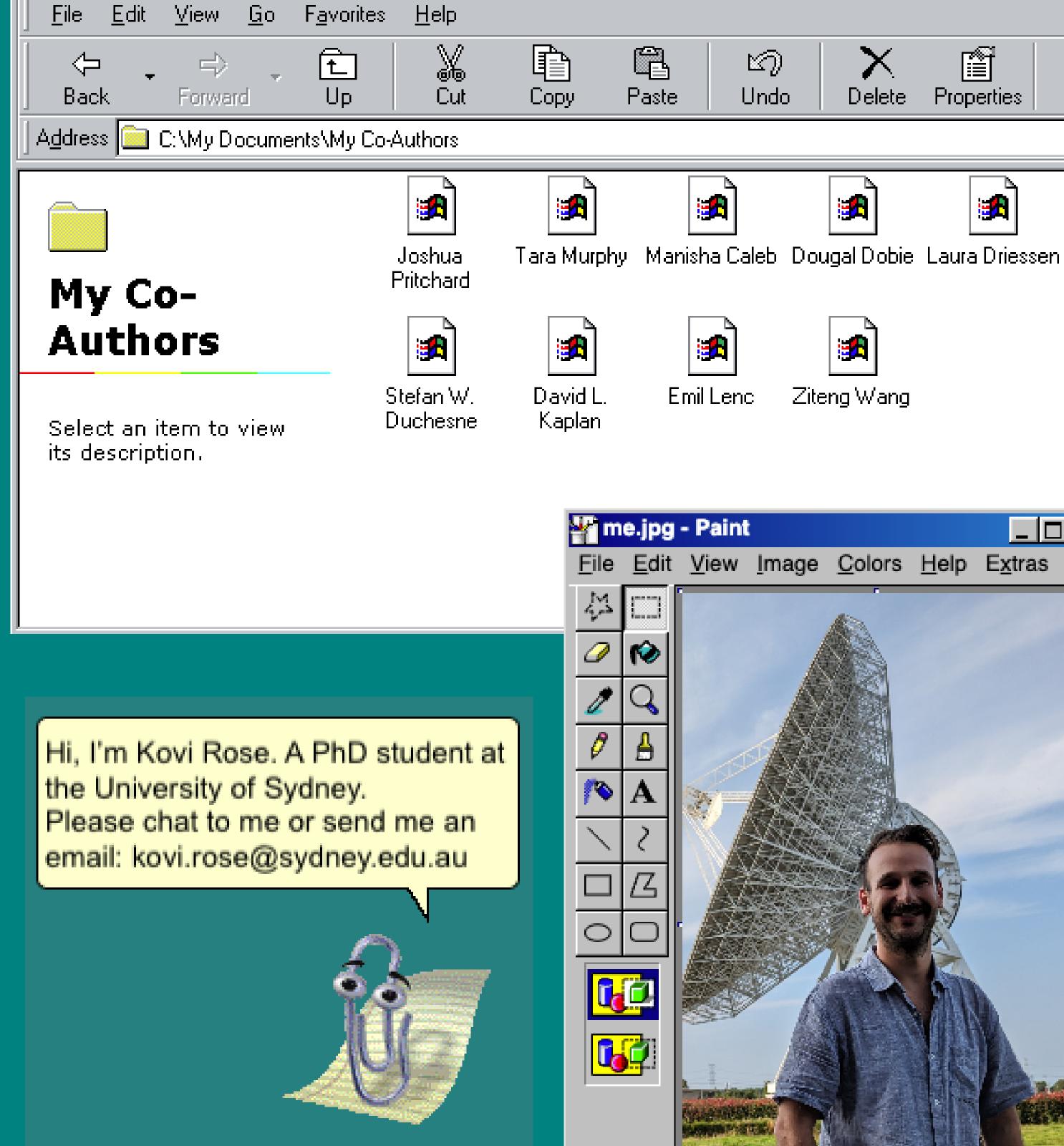
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often rotationally modulated and can be used to measure UCD rotational periods. Auroral currents driving UCD emission are generated by co-rotational breakdown between the magnetosphere and circumstellar plasma, or as the result of magnetospheric interaction with a companion. Radio studies of UCDs can thus be used to probe magnetic fields and to identify





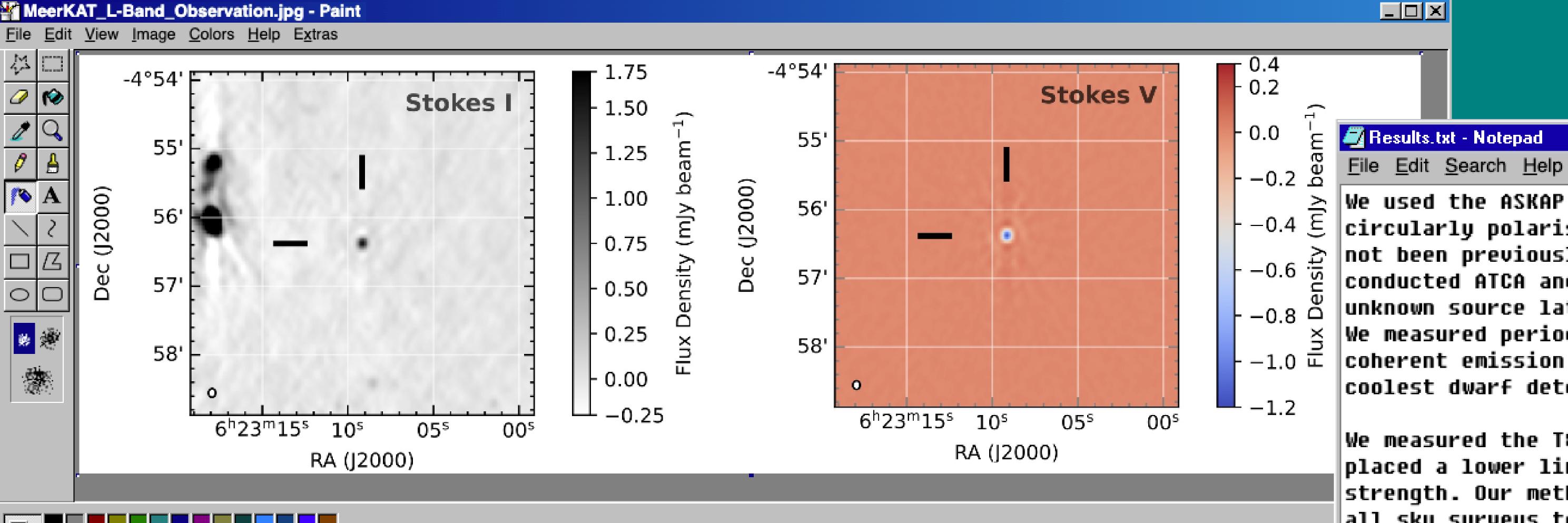


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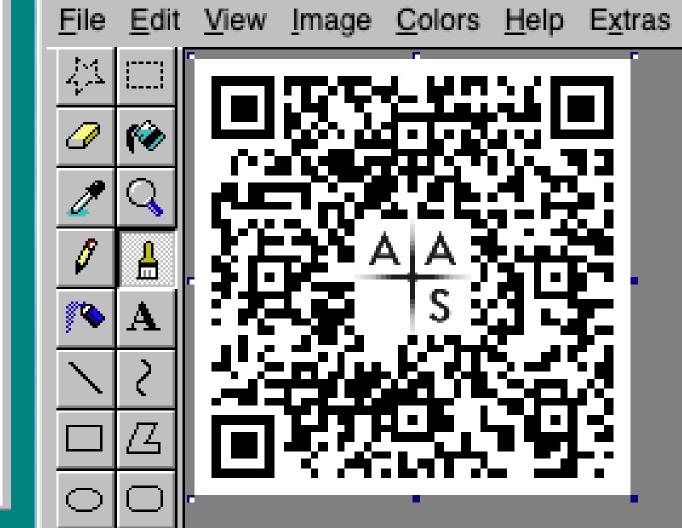
We used the ASKAP RACS-mid survey to identify circularly polarised sources, most of which had \ \_\_\_\_\_\_\_not been previously detected in radio. We conducted ATCA and MeerKAT observations of an unknown source later identified as a T8 dwarf. We measured periodic, rotationally modulated -1.0  $\square$  coherent emission from this object - the coolest dwarf detected in radio.

> We measured the T8 dwarf's rotation period and placed a lower limit on its magnetic field strength. Our method can be used with future all sky surveys to detect and study UCDs and their companions.

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