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HYDROGEN CYANIDE IN THE BIPOLAR SOURCE CEP A

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The Cep A molecular cloud has been mapped in the 87 GHz continuum and in the J = 1-0 transition of HCN with a combination of single antenna and interferometer observations. The resolution is $19"\times14"$ (about 0.06 pc at the distance of Cep A) and 0.8 km/sec in velocity.

We have detected a 115 mJy continuum source which we identify with the source of the extended bipolar molecular outflow. In the HCN line, we find a quiescent cloud located about 20" east of the continuum source. This cloud has a mass of about 100 M_{\odot} . It shows no evidence for either bipolar outflow (unlike CO) or for rotation (unlike NH₃). We argue that this cloud has deflected the blue-shifted lobe seen in CO emission and reduced the momentum of the flow in that lobe. A full account of this paper appeared in Astron. Astrophys. <u>153</u>, 139, 1985.