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H. STEINLE<sup>1</sup>, W. PIETSCH<sup>1</sup>, M. GOTTWALD<sup>2</sup> and U. GRASER<sup>3</sup>

<sup>1</sup>Max-Planck-Institut für Extraterrestrische Physik,
Garching, F.R.G.

<sup>2</sup>EXOSAT Observatory, ESOC, Darmstadt, F.R.G.

<sup>3</sup>Max-Planck-Institut für Astronomie, Heidelberg, F.R.G.
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ABSTRACT: During two observation periods in 1984 and 1985 we monitored the faint optical counterparts of seven X-ray binaries with a CCD camera attached to the Cassegrain-focus of the 2.2 m telescope at Calar Alto, Spain. The observation periods were 1984, September 25-27, and 1985, August 8-15.

The transient sources 4U0042+32 and 4U0115+63 showed no active state.

The search for an optical candidate of 4U0142+62 did not reveal any object $m_v \leq 24$ within the EXOSAT error box.

Within the EXOSAT error box of EXO2030+37 the reddest object was found to be very faint in blue in contrast to the blue Palomar plate.

The analysis of the other three observed sources 4U1837+04, 1H1929+509, and 4U2129+47 is not yet finalized, but no unexpected bright or faint state of the sources has been found. 4U2129+47 is still in its present low state ($m_v=18$), lasting at least since 1983.

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