very close to that occurring in CoCl₂.2H₂O. However, the Co–Cl distances are slightly longer than those reported in the other structures (2.52 Å as against 2.45, 2.48 and 2.49 Å), and are equal, by symmetry. The other important difference is that the other structures contain polymeric chains of Co and Cl, whereas in this structure the octahedron is isolated. It does, however, provide some of the linking between the more complex coordination around Co(1). Additional linking with this complex sheet is provided by the sodium atom which has an environment of three oxygen atoms lying in a planar configuration. Fig. 2 shows the general arrangement for the lower half of the unit cell. A list of selected interatomic distances is given in Table 2.

The Patterson function was calculated on a Deuce computer using programs written by Dr Rollett of Oxford University, but the later F_{θ} maps and structure factor cycles were calculated on the Elliott 803.

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Notes and News

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