Supplementary material for paper:

Origins of the solar radiation biases over the Southern Ocean in CFMIP2 models

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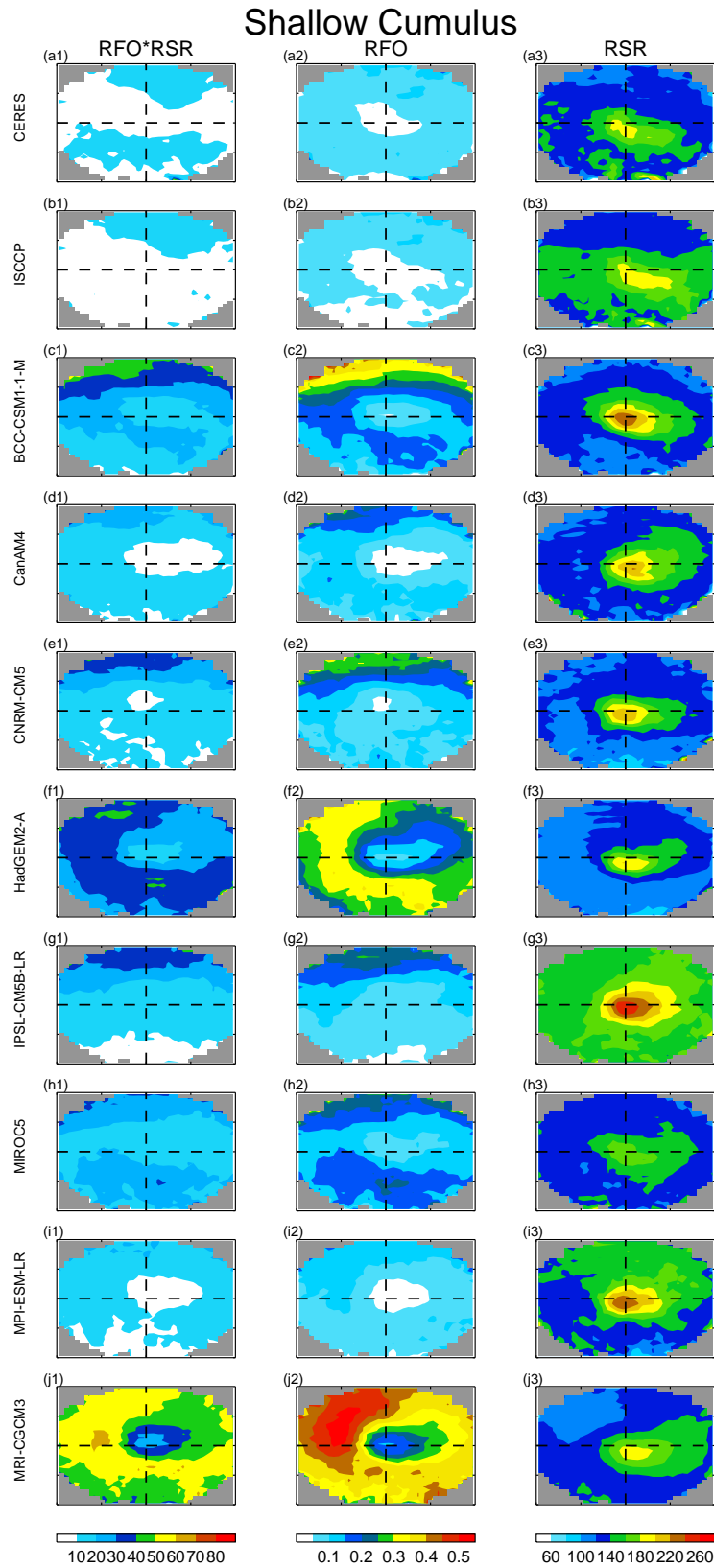E-mail: alejandro.bodas@metoffice.gov.uk

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FIG. 1. Cyclone composite of the shallow cumulus cluster: (left column) contribution of the cloud regime to the mean composite RSR, (center column) relative frequency of occurrence of the regime, and (right column) average RSR when the regime occurs. Thus the left column is the product of the other two. The first two rows show the results from CERES and ISCCP, and the other rows the results for the models analysed in Section 2.
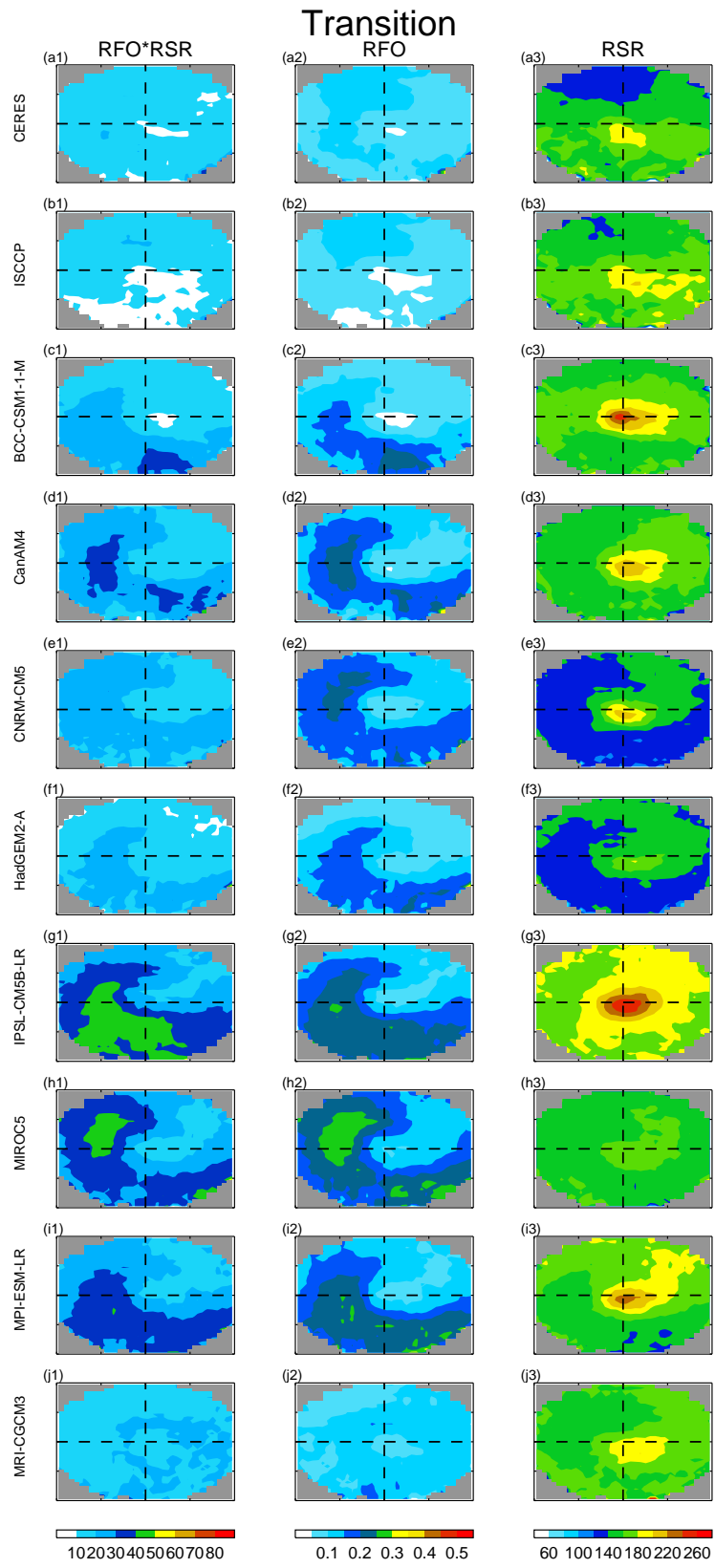
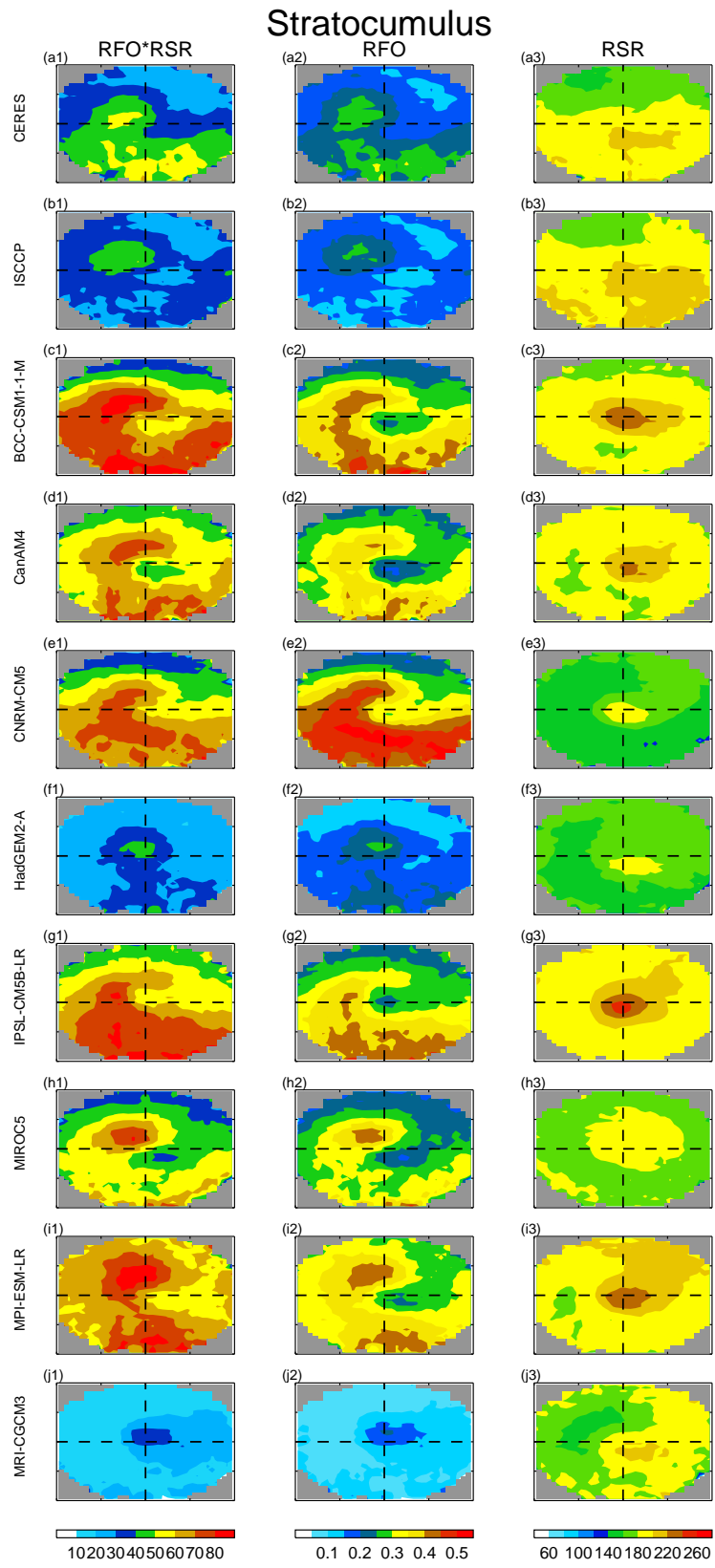FIG. 2. As Figure 1, but for the transition cluster.

Stratocumulus

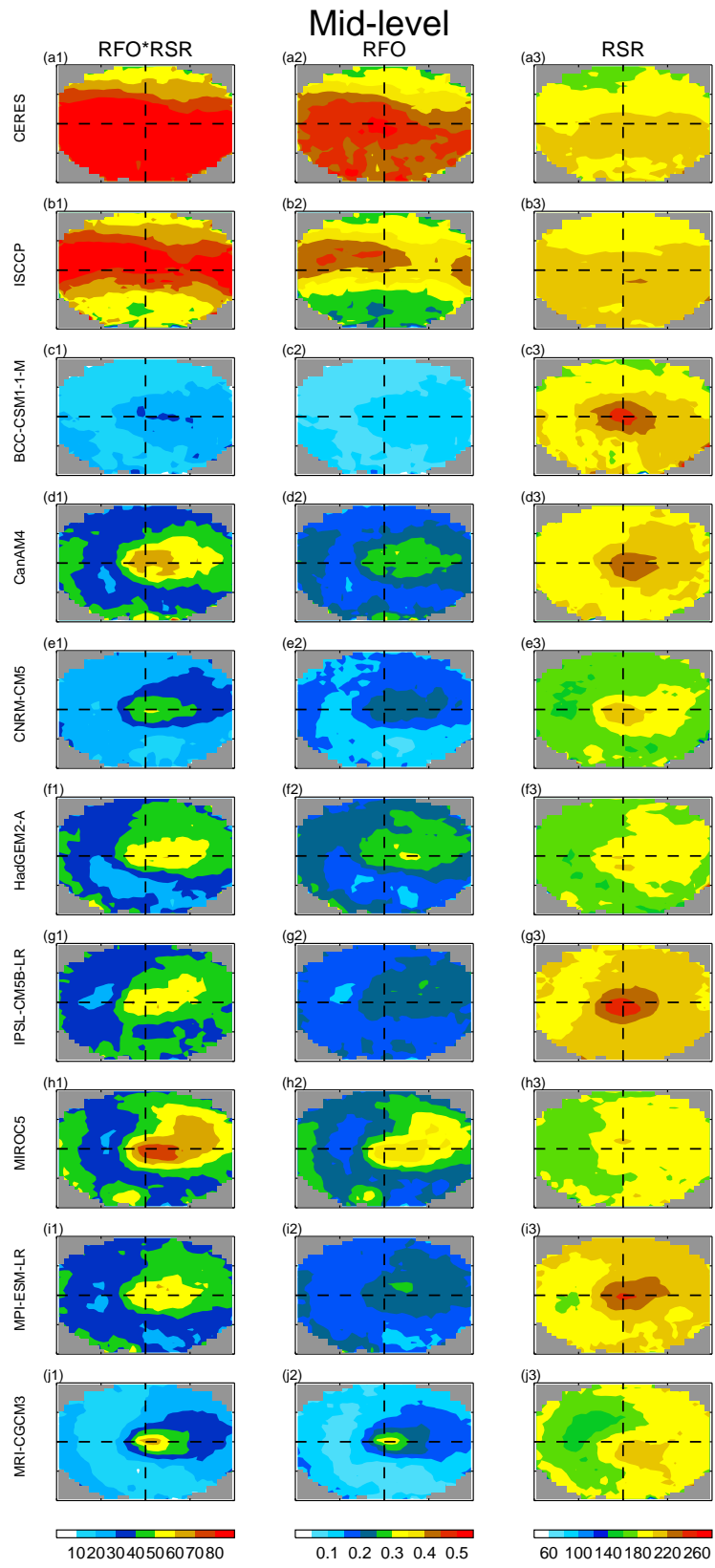FIG. 3. As Figure 1, but for the stratocumulus cluster.

Mid-level

FIG. 4. As Figure 1, but for the mid-level cluster.
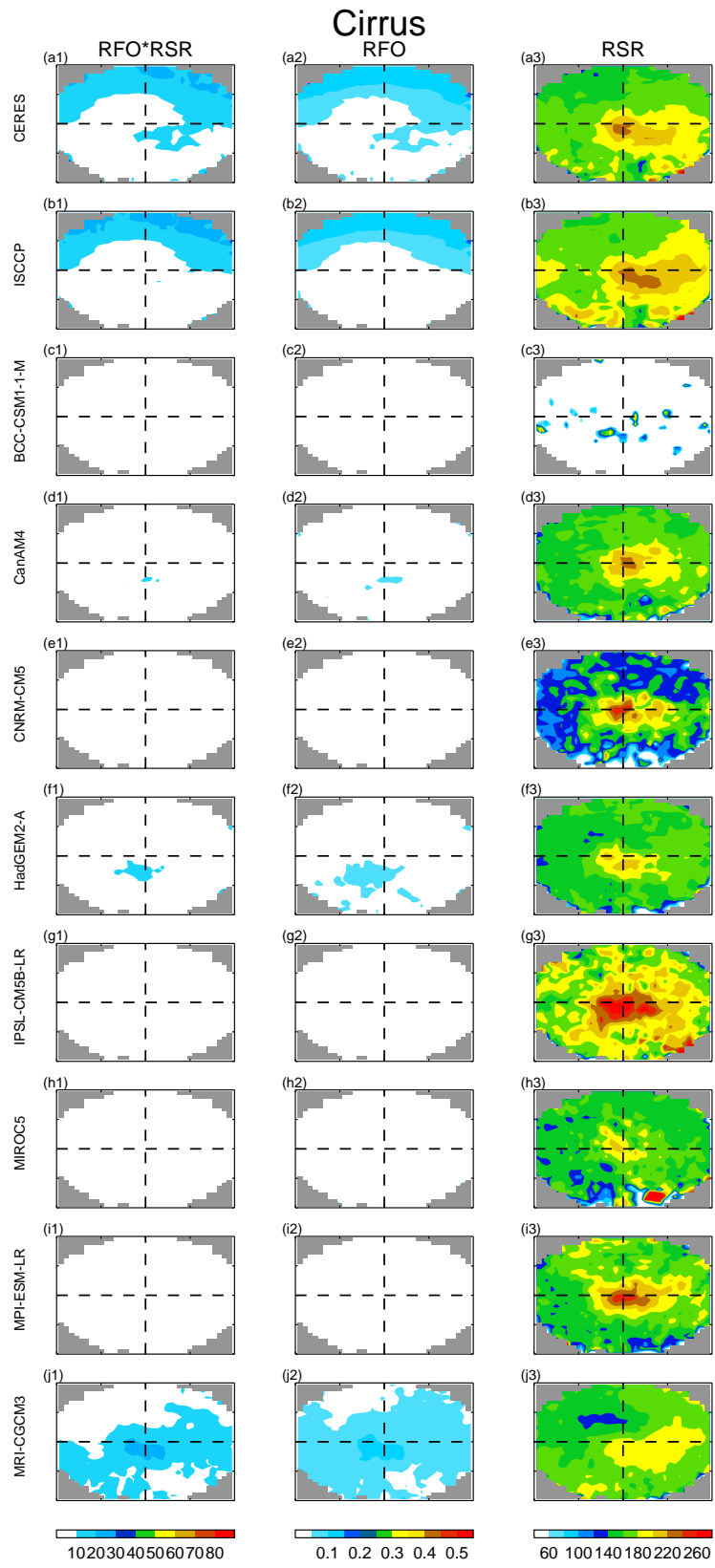
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Fig. 5. As Figure 1, but for the frontal cluster.

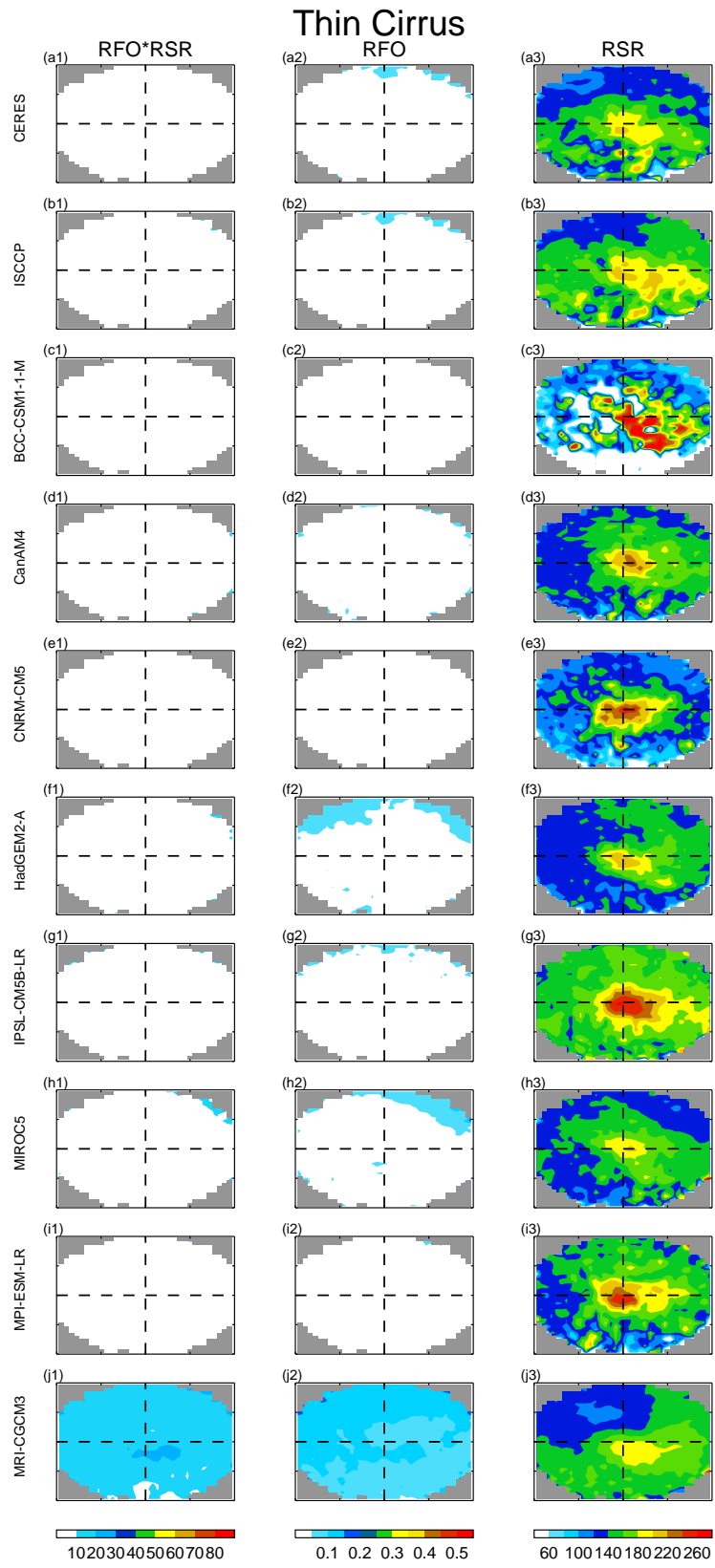# Cirrus

FIG. 6. As Figure 1, but for the cirrus.

Thin Cirrus

FIG. 7. As in Figure 1, but for the thin cirrus regime.