

	Band	Covariance matrix	Solar zenith angle ( $^{\circ}$ )	Figure results represented in
Scenario 1	2	Pure diagonal	30	Figs. 6a and 7a
Scenario 2	2	Pure diagonal	60	Figs. A1a and A3a
Scenario 3	2	Non-diagonal	60	Figs. A2a and A4a
Scenario 4	3	Pure diagonal	30	Figs. 6b and 7b
Scenario 5	3	Pure diagonal	60	Figs. A1b and A3b
Scenario 6	3	Non-diagonal	60	Figs. A2b and A4b
Scenario 7	2 and 3	Pure diagonal	30	Figs. 6c and 7c
Scenario 8	2 and 3	Pure diagonal	60	Figs. A1c and A3c
Scenario 9	2 and 3	Non-diagonal	60	Figs. A2c and A4c