Sivivai-2 Questioi	mane. Radiation 3	CHETHES
. Identification		
		ne name of your model. This is used to n the different parts of the CCMVal
. Shortwave Radiat	ion: Description	
pectral bands covered by the ocesses included in the radia ases included in the radiation	ation scheme	
2. Enter the number	of shortwave spectral b	ands
eg. 0.15-0.69 1 2 3 4 5 6 7 8 9 10	re included in the shortw	
Absorption	€ Emission	Scattering
Other (please enter as a comm	na separated list)	
5. What gases are in	cluded in the shortwave	radiation scheme?
€ Water Vapour	€ Oxygen	€ Halocarbons
€ Carbon Dioxide	€ Methane	
€ Ozone	Nitrous Oxide	
Other (please enter as a comm	na separated list)	
		<u></u>
6. Is Albedo conside	red by the shortwave rac	diation scheme?
jn Yes	j n	No

CCMVal-2 Questionnaire: Radiation Schemes 3. Shortwave Radiation: Basic Approximation and Solution Method References for the basic approximation and solution method 7. Enter a short description of the basic approximation used by the shortwave radiation scheme 8. Enter a reference for the basic approximation doi Author(s) Year Title Journal Volume Pages 9. Is the reference a book? m Yes m No 10. Enter a short description of the solution method used for the shortwave radiation scheme 11. Enter a reference for the solution method Author(s) Year Title Journal Volume Pages 12. Is the reference a book? n Yes jn No 13. Enter a link to a web page with further information 4. Shortwave Radiation: Clouds How are clouds treated in the shortwave radiation scheme?

	i e		n by ico cloude	
Absorption by liquid clo	ouds	Absorption	on by ice clouds	
Other (please enter as a co	omma separated list)			
			<u>^</u>	
15 5 1 1 1				
15. Enter a snort (radiation scheme	description about t	the way clouds	are treated in t	tne snortwave
adiation scrience				
			₹	
16. Enter a refere	nce about clouds i	n the shortwav	e radiation sch	eme
doi				
Author(s)				
/ear				
Title lournal				
/olume				
Pages				
17. Is the referen	ce a book?			
17. Is the referen	ce a book?	to No		
17. Is the referen	ce a book?	jn No		
jn Yes	ce a book? a web page with f	, and the second	tion	
jn Yes		, and the second	tion	
jn Yes 18. Enter a link to	a web page with f	, and the second	tion	
jn Yes 18. Enter a link to		, and the second	tion F	
jn ^{Yes} 18. Enter a link to Shortwave Radi	a web page with f	urther informa	tion F	
jn Yes 18. Enter a link to Shortwave Radi are aerosols treated in	a web page with f	further information	<u>►</u>	ne?
In Yes 18. Enter a link to Shortwave Radi are aerosols treated in	a web page with final action: Aerosols the shortwave radiation are included in you	further information	radiation schem	ne?
3 Sulphate	a web page with final are included in your solution.	further information in scheme?	radiation schem	ne?
in Yes 18. Enter a link to Shortwave Radi are aerosols treated in 19. What aerosols © Sulphate © Sea Salt	a web page with final and a web page with final ation: Aerosols in the shortwave radiation are included in your solutions. Solution in the shortwave radiation are included in your solutions.	further information	radiation schem	ne?
3 Sulphate	a web page with final and a web page with final ation: Aerosols in the shortwave radiation are included in your solutions. Solution in the shortwave radiation are included in your solutions.	further information in scheme?	radiation schem	ne?
in Yes 18. Enter a link to Shortwave Radi are aerosols treated in 19. What aerosols © Sulphate © Sea Salt	a web page with final and a web page with final ation: Aerosols in the shortwave radiation are included in your solutions. Solution in the shortwave radiation are included in your solutions.	further information in scheme?	radiation schem	ne?
Shortwave Radiare aerosols treated in Sulphate Sea Salt Other (please enter as a co	a web page with final and a web page with final ation: Aerosols at the shortwave radiation are included in your solutions. Solution are included in your solutions.	further information of the scheme? Our shortwave rules are seen of the scheme of the	radiation schem	
Shortwave Radiare aerosols treated in Sulphate Sea Salt Other (please enter as a co	a web page with fation: Aerosols the shortwave radiation are included in you sound sound separated list)	further information of the scheme? Our shortwave rules are seen of the scheme of the	radiation schem	
Shortwave Radiare aerosols treated in Sulphate Sea Salt Other (please enter as a co	a web page with fation: Aerosols the shortwave radiation are included in you sound sound separated list)	further information of the scheme? Our shortwave rules are seen of the scheme of the	radiation schem	
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Shortwave Radiare aerosols treated in Sulphate Sea Salt Other (please enter as a co	a web page with fation: Aerosols the shortwave radiation are included in you sound sound separated list)	further information of the scheme? Our shortwave rules are seen of the scheme of the	radiation schem	

CCMVal-2	2 Questionnaire: Radiation Schemes
21. Ente	er a reference about aerosols in the shortwave radiation scheme
doi	
Author(s)	
Year Title	
Journal	
Volume	
Pages	
22. Is th	ne reference a book?
j _n Yes	j₁ No
23. Ente	er a link to a web page with further information
6. Longwa	ave Radiation: Description
Spectral hands	s covered by the radiation scheme
Processes inclu	uded in the radiation scheme I in the radiation scheme
24. ENTE	er the number of longwave spectral bands
	er the longwave radiation scheme spectral bands (microns)
eg. 0.15	-0.69
2	
3	
4	
5	
6	
7	
9	
10	
11	
12	
13	
14	
15	

Absorption	€ Emission	€ Scattering
Other (please enter as a comma	separated list)	
		<u> </u>
		<u> </u>
27. What gases are in	cluded in the longwave r	adiation scheme?
€ Water Vapour	Oxygen	€ Halocarbons
Carbon Dioxide	Methane	
© Ozone	Nitrous Oxide	
Other (please enter as a comma	separated list)	
		<u>^</u>
28 ls Albada consida	red by the longwave radi	ation scheme?
jn Yes	j: No	D.
ences for the basic approxi	mation and solution method	on and Solution Methods eximation used by the longwave
ences for the basic approxi 29. Enter a short desc adiation scheme	mation and solution method	oximation used by the longwave
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ences for the basic approxice. 19. Enter a short description adiation scheme 30. Enter a reference of the basic approxication and the basic approxication are also approxicated and the basic approxication and the basic approx	mation and solution method cription of the basic appro	eximation used by the longwave
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ences for the basic approxice. 9. Enter a short description adiation scheme 90. Enter a reference of the basic approxication scheme 90. Enter a reference of the basic approxication scheme 90. Enter a reference of the basic approxication scheme 90. Enter a reference approxication s	for the basic approximate a book?	eximation used by the longwave

CCMVal-2 Questionnaire: Radiation Schemes	
33. Enter a reference for the solution method	
doi Author(s)	
Year	
Title	
Journal Volume	
Pages	
34. Is the reference a book?	
jn Yes jn No	
35. Enter a link to a web page with further information	
8. Longwave Radiation: Clouds	
How are clouds treated in the longwave radiation scheme?	
36. What cloud processes are inclued in your longwave radiation scheme?	
€ Absorption by liquid clouds € Absorption by ice clouds	
Other (please enter as a comma separated list)	
37. Enter a short description about the way clouds are treated in the longwave radiation scheme	
38. Enter a reference about clouds in the longwave radiation scheme	
doi	
Author(s) Year	
Title	
Journal	
Volume Pages	
39. Is the reference a book?	
jn Yes jn No	
40. Enter a link to a web page with further information	
45. Enter a first to a web page with fultifier information	
9. Longwave Radiation: Aerosols	

41. What aerosols are included in your longwave radiation scheme? 41. What aerosols are included in your longwave radiation scheme? 5 Sulphate 5 Sea Sait 7 Soet Other (please enter as a comma separated list) 42. Enter a short description about the way aerosols are treated in the longwave radiation scheme 43. Enter a reference about aerosols in the longwave radiation scheme 44. Is the reference a book? 19 Yes 19 No 45. Enter a link to a web page with further information 20. Thank you ank you for completing the Radiation Schemes part of the CCMVal questionnaire.	CMVal-2	2 Questionnaire: Ra	diation Schemes
E Sulphate E Sea Salt E Soot Other (please enter as a comma separated list) 42. Enter a short description about the way aerosols are treated in the longwave radiation scheme 43. Enter a reference about aerosols in the longwave radiation scheme dol Author(s) Year Title Journal Volume Pages 44. Is the reference a book? Jin Yes Jin No 45. Enter a link to a web page with further information	ow are aeros	sols treated in the longwave radia	tion scheme?
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O. Thank you 42. Enter a short description about the way aerosols are treated in the longwave radiation scheme 43. Enter a reference about aerosols in the longwave radiation scheme dol	€ Sulpha	ate	€ Biomass Aerosols
Other (please enter as a comma separated list) 42. Enter a short description about the way aerosols are treated in the longwave radiation scheme 43. Enter a reference about aerosols in the longwave radiation scheme doi Author(s) Year Title Journal Volume Pages 44. Is the reference a book? Jin Yes Jin No 45. Enter a link to a web page with further information	€ Sea Sa	alt	€ NAT
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43. Enter a reference about aerosols in the longwave radiation scheme doi Author(s) Year Title Journal Volume Pages 44. Is the reference a book? jn Yes jn No 45. Enter a link to a web page with further information			<u></u>
43. Enter a reference about aerosols in the longwave radiation scheme doi		·	ut the way aerosols are treated in the longwave
doi Author(s) Year Title Journal Volume Pages 44. Is the reference a book? jn Yes jn No 45. Enter a link to a web page with further information			<u>△</u>
Journal Volume Pages 44. Is the reference a book? jn Yes jn No 45. Enter a link to a web page with further information C. Thank you	doi Author(s)	er a reference about aeros	sols in the longwave radiation scheme
Volume Pages 44. Is the reference a book? jm Yes 45. Enter a link to a web page with further information C. Thank you	Title		
44. Is the reference a book? jn Yes jn No 45. Enter a link to a web page with further information D. Thank you			
Jin Yes 45. Enter a link to a web page with further information C. Thank you			
45. Enter a link to a web page with further information Thank you	44. Is tl	he reference a book?	
D. Thank you	j₁ Yes		j _{∵∩} No
D. Thank you	45 Ente	er a link to a web page wit	th further information
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ank you for completing the Radiation Schemes part of the CCMVal questionnaire.			
	ank you for	completing the Radiation Scheme	es part of the Comvai questionnaire.