Annex F Evaluation protocol

F1 Protocol with the required properties

This page serves as a template. It can also be accessed at www.vdi.de/vdi_3783-7.

====	Model evaluation protocol in conformity with VDI 3783 Part 7				
	Tests by the model developer (Section 5 of the	standard) 			
provi	This document certifies the evaluation of a prognostic mesoscale wind field model. It conforms to the provisions of VDI 3783 Part 7, Section 5. Numbers in brackets [] refer to the relevant section of the standard. Please complete, crossing out inapplicable items.				
0. Pa	rticulars of mesoscale model, Version				
pu	blication date:	Day:			
pe	rson responsible for the model	- 			
pe	rson responsible for the evaluation				
	address				
	e-mail, tel.:				
1. Ge	neral evaluation	[5.1]			
	mprehensibility	 [5.1.1]	YES / NO		
	ief description	[5.1.2.1]			
	tailed description of the model	[5.1.2.2]	- , -		
	nual	[5.1.2.3]	YES / NO)	
ev	aluation report	[5.1.2.4]	YES / NO)	
te	chnical reference (only required when source code is open)	[5.1.2.5]	YES / NO)	
2. Sc	ientific evaluation	[5.2]			
ea	uations are Reynolds-averaged	[5.2]	YES / NO)	
_	1 three wind components prognostic	[5.2]	YES / NO		
(p	otential) temperature prognostic	[5.2]	YES / NO)	
CO	riolis force taken into account	[5.2]	YES / NO)	
CO	ntinuity equation complete or anelastic approximation	[5.2]	YES / NO)	
bu	oyancy forces taken into account	[5.2]	YES / NO)	
tu	rbulence parameterisation stability-dependent	[5.2]	YES / NO)	
fl	uxes continuous as a function of location	[5.2]	YES / NO)	
fl	uxes continuous as a function of stratification	[5.2]	YES / NO)	
di	rect simulation of the near-ground flows or Monin-Obukhov theory	[5.2]	YES / NO)	
un	stable stratification: parameterisation of subgrid-scale boundary	y layer convection			
		[5.2]	YES / NO		
	nd use properties (e.g. via roughness) taken into account	[5.2]	YES / NO		
	rface heat balance at least force-restore method	[5.2]	YES / NO		
	opes and shadowing accounted for in the insolation	[5.2]	YES / NO		
_	ecific humidity prognostic rface humidity balance is to be solved	[5.2] [5.2]	YES / NO YES / NO		
3. Va	lidation	[5.3, Annex E]			
te	st case E1 - Quasi-2-D bell-shaped ridge - two-dimensionality	[E.1]	YES / NO)	
te	st case E2 - Quasi-2-D bell-shaped ridge - wind speed	[E.2]	YES / NO)	
te	st case E3 - Gaussian mountain - grid size	[E.3]	YES / NO)	
te	st case E4 - Gaussian mountain - shadowing, cold air	[E.4]	YES / NO)	
+ 0	st case E5 - Gaussian mountain - inflow direction	[E.5]	YES / NO)	

test case E6 - Sophienhöhe - flow around a hill	[E.6]	YES / NO
test case E7 - Graz basin - recirculation	[E.7]	YES / NO
test case E8 - Stuttgart basin - flow channelling, cold air flow		YES / NO
4. Model internal controls		YES / NO
********************	******	*****
EVALUATION RESULT		
*******************	******	*****
The mesoscale model (Version) is		
***** EVALUATED / NOT EVALUATED *****		
in conformity with VDI 3783 Part 7.		
The model is deemed evaluated in accordance with VDI 3783 Part 7 if all t the affirmative.	est points wer	e answered in
I confirm that all the information contained in this certificate was perhaps knowledge and belief. No attempt has been made to modify the model for ind to achieve better conformity of the model results with the reference data	lividual test o	_
(place and date) (signature)		
**********************	* * * * * * * * * * * * *	*****

F2 Evaluation protocol for the model user

		:=======					
Model evaluation protocol in conformity with VDI 3783 Part 7							
Tests by the model user (Section 6 of the standard)							
	=======	:========					
This document certifies the evaluation of a prognostic mesoscale wind field model. It conforms to the provisions of VDI 3783 Part 7, Section 5. Numbers in brackets [] refer to the relevant section of the standard. Please complete, crossing out inapplicable items.							
0. Particulars of mesoscale model, Version							
publication date:: Year:	- 						
1. Validation [6.4, 5.3, Ans	4, 5.3, Annex E]						
test case E3 - Gaussian mountain - grid size	[E.3]	YES / NO					
test case E6 - Sophienhöhe - flow around a hill	[E.6]	YES / NO					
test case E8 - Stuttgart basin - flow channelling, cold air drainage flow	[E.8]	YES / NO					
2. Application rules	[6]	, -					
requirements related to model domain and simulation grid	[6.1]	YES / NO					
initialisation requirements	[6.2]	YES / NO					
testing the Quasi-stationarity	[6.3]	YES / NO					
quality control of the model results	[6.4]	YES / NO					
quarity control of the model results							
***** E V A L U A T E D / N O T E V A L U A T E D ***** for the above user. The model is deemed evaluated in accordance with VDI 3783 Part 7 if all test points were answered in the affirmative. I confirm that all the information contained in this certificate was provided to the best of my knowledge and belief. No attempt has been made to modify the model for individual test cases in order							
to achieve better conformity of the model results with the reference data. (place and date) (signature)	-						