1	Performance of WRF Large Eddy Simulations in modeling the	and the same of th	删除的内容: Weather Research and Forecasting Model
			删除的内容: RF
2	convective boundary layer over the Taklimakan Desert, China		删除的内容: -Eddy
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5	Hongxiong Xu ¹ , Minzhong Wang ¹²⁴ , Yinjun Wang ¹ , Wenyue Cai ¹³	1 /	删除的内容: : A Real Test Case
7	1 State Key Laboratory of Severe Weather, Chinese Academy of Meteorological Sciences		批注 [LP1]: The title of your paper has been edited for clarity
8	Beijing, China 100081	//	– please check and confirm meaning is now correct.
9	2 Institute of Desert Meteorology, CMA (Chinese Meteorological Administration),		删除的内容: Minzhong Wang ¹²
10	Urumqi, China	`	删除的内容:
11	3National Climate Center, Chinese Meteorological Administration,		([1])
12	Beijing, China 100081		
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14	<u>China</u>		
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16	Submitted to Journal of Meteorological Research	and the same of th	删除的内容:[2]
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20	Institute of Desert Meteorology,	The same of the same of	删除的内容:
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23 24	P. R. China, 100081, Email: wangmz@idm.cn	*******	删除的内容: Chinese Academy of Meteorological Sciences
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Abstract

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boundary layer, Taklimakan Desert

The maximum height of the convective boundary layer (CBL), over the Taklimakan Desert can exceed 5000 m during the summer and has a crucial role in simulating the regional circulation and weather. We combined Weather Research and Forecasting Large, Eddy Simulations, with data from Global Positioning System (GPS) radiosondes and eddy covariance stations to evaluate the performance of the model in predicting the characteristics of the deep convective planetary boundary layer over the central Taklimakan Desert. The model reproduced the evolution of planetary boundary layer processes reasonably well but the simulations predicted warmer and more moist conditions than the observations as a result of the over-prediction of surface fluxes and large-scale, advection. Further simulations were performed with multiple configurations and sensitivity experiments. The sensitivity tests for the lateral boundary conditions (LBCs) showed that the model results are sensitive to changes in the time resolution and domain size of the specified LBCs. A larger domain size varies the distance of the area of interest from the LBCs and reduces the influence of large forecast errors near the LBCs. Comparing the model results using the original land surface parameterized sensible heat flux with the Noah land surface scheme and those of the sensitivity experiments showed that the desert CBL is sensitive to the sensible heat flux produced by the land surface scheme during daytime in summer. A reduction in the sensible heat flux can correct overestimates of the potential temperature profile, However, increasing the sensible heat flux significantly reduces the total time needed to increase the CBL to a relatively low altitude (<3 km) in the middle and initial stages of the development of the CBL rather than producing a higher CBL in the later stages

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Keywords: Weather Research and Forecasting Model, Large Eddy Simulations, convective

174 1 Introduction

175	The Taklimakan Desert, in south-central Xinjiang Province, China, is the world's
176	second-largest flow desert and has a profound influence, on the regional weather and climate.
177	As a result of the extreme range in near-surface temperatures, the planetary boundary layer
178	(PBL) in this region commonly reaches 4–6 km in height during the boreal summer (Wang et
179	al.), the deepest on Farth. This deep PBL, which is significantly higher than that over the 删除的内容: (Wang et al.)
180	surrounding mountains and oases, plays an important role in the regional circulation and 删除的内容: part
181	weather. The accurate forecast of PBL processes over the Taklimakan Desert is an important 删除的内容: on thenregional circulation and weather. 13
182	problem <u>in northwest China</u> .
183	The <u>atmosphere over large deserts</u> (such as the Sahara, and Taklimakan, deserts) is a key 删除的内容: ,and Taklimakan et aleserts) [14]
184	component in the Earth's climate system. Surface heating from intense solar radiation leads to
185	the development of a near-surface, low-pressure thermal system, commonly referred to as a
186	heat low_(Engelstaedter et al. 2015). However, despite the vital role that deserts have in the
187	Earth's climate system, observations are extremely sparse and the available data are usually
188	obtained from surrounding areas (Marsham et al. 2011). This lack of observational data has
189	restricted the development of our understanding of deserts and has led to large discrepancies
190	<u>in</u> analyses and significant biases in operational numerical weather prediction (NWP) models.
191	The ability of local models to simulate real-world examples is often hindered by a lack of data
192	with which to assess the performance of the model (Garcia-Carreras et al. 2015).
193	To fill in the gaps in the available data for the Taklimakan Desert, a field observation 删除的内容:o fill in the gaps ofn the available data for the Taklimakan Desert, a field observation
194	experiment was carried out during July 2016 in Tazhong, Jocated in the center of the
195	Taklimakan, Desert near, the Institute of Desert Meteorology, Chinese Meteorological 删除的内容: g 删除的内容:Desert near bythe Institute of Desert Institute of Deser
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277	Administration, Urumqi (Liu et al. 2012; Wang et al. 2016a; Wang et al. 2016b). These data 删除的内容: (CMA) Urumqi (Liu et al. 2012; Wang et al. 2016 it al. 2016 it al. 2012; Wang et al. 2016 it
278	will allow the evaluation of the performance of the deep PBL process in NWP models over
279	the Taklimakan Desert.
280	The motion of the atmosphere interweaves small-scale, complex interactions with 删除的内容: On the other hand, atmospheric [19]
281	multiscale nonlinear interactions. As a result of their limited resolution in both time and space.
282	mesoscale atmospheric models are <u>unable to represent all these processes (Talbot et al. 2012).</u>
283	删除的内容: explicitlyepresent all these processes (Talkat 20) which include turbulent motion on a scale that is too small to be resolved by simplified
284	processes in atmospheric models, Turbulent mixing throughout the PBL, can have a large 删除的内容: planetary boundary layer (BL) [21]
285	impact_on_forecasts by NWP models (Shin; Hong 2011; Shin; Hong 2015).
286	Complex turbulent flows in NWP models can be analyzed by large eddy simulation 删除的内容: One way to tackle complex turbulent flows in NWP models can be analyzed by large eddy simulation
287	(LES) techniques, which can explicitly resolve the energy-containing turbulent motions
288	responsible for turbulent transport_(Moeng et al. 2007). LES techniques have been used
289	intensively to examine the detailed structure of turbulence, to generate statistics, and to study
290	physical processes (Garcia-Carreras et al. 2015; Heinold et al. 2013; Heinold et al. 2015;
291	Heinze et al. 2015; Sun; Xu 2009). However, most applications of LES techniques to the PBL
292	have been limited to idealized physical conditions. Recently, some studies have attempted to 删除的内容: S
293	test and assess the performance of LES in simulating real-world case studies (Liu et al. 2011; 删除的内容: LESnd assess itshe performance of LES in simulating real-world case studies (Liu et al. 2011;
294	Talbot et al. 2012). Liu et al. (2011) suggested that the Weather Research and Forecasting
295	Large Eddy Simulation (WRF-LES) is a valuable tool with which to simulate real-world
296	microscale weather flows and to develop real-time forecasting systems, although further 删除的内容:
297	modeling to determine the accuracy of synoptic forcing and the effect of resolution has been 删除的内容: LESodeling tests,such as elucidata [25]
298	highly recommended. Talbot et al. (2012) suggested that the ability of WRF-LES to simulate

376	real-world examples is hindered by a lack of favorable synoptic forcing. The initial and lateral	删除的内容:orld cases arexamples is hinder ad bar a [26]
377	boundary conditions (LBCs) were found to be more important in the LES results than	
378	subgrid-scale turbulence closures. Thus, the LBCs, can significantly alter the status of	删除的内容: initial condition
		删除的内容: ofan significantly alter the status of [27]
379	high-resolution LESs via inflow boundaries (Rai et al. 2017).	删除的内容: WRF land-surface modelnflow boyndariae
380	Most of the LES research over desert regions has been limited to idealized physical	删除的内容: However, most of the research about [29]
381	conditions_(Garcia-Carreras et al. 2015) or conducted <u>outside the Taklimakan Desert (Liu et</u>	
382	al. 2011; Talbot et al. 2012). The aim of this study was to apply LES to a real example of a	删除的内容: As far as we know,
		删除的内容: is the first attempt toas to applicate
383	deep convective boundary layer (CBL) over the Taklimakan Desert. An important aspect of	删除的内容: Thus, a
384	this work is to assess the skillfulness of the WRF-LES in simulating real examples of deep	删除的内容: the ongoinghis paper [31]
		删除的内容: examine
385	desert PBL processes at a relatively coarse resolution (333 m) over the Taklimakan Desert	删除的内容: in relative coarse resolution (333m) over
200	their the best summer We first one a subjection of the WDF LFC and Clobal	Taklimakan dessert
386	during the boreal summer, We first use a combination of the WRF-LES and Global	删除的内容:,
387	Positioning System (GPS) radiosonde and surface fluxes over the central Taklimakan Desert	删除的内容: casesxamples of deep desert PBL [32]
388	calculated <u>using</u> an eddy covariance method to evaluate the performance of the WRF-LES in	删除的内容: First we assess the potential errors related to LBC. Then
		删除的内容: First we first use a combination of the
389	a real-world example. We then assess the potential errors related to the LBCs. One of our	刷除的内容: O
390	aims is to evaluate the relative contribution of uncertainties in the surface model to the typical	
391	behavior of PBL processes by conducting sensitivity experiment, We therefore studied the	删除的内容: theensitivity experiment.sThus
392	sensitivity of the model performance to the surface sensible heat flux Section 2 gives a brief	
393	description of the synoptic conditions of the case study and describes the data, model	删除的内容: . In Section 3
394	configuration and design of the numerical experiments, The results of the numerical	删除的内容: ,and weescribed the data, and [35]
JJ-1	and design of the numerical experiments, while results of the numerical	
395	simulations are presented in Section 3 and our conclusions are summarized in Section 4.	删除的内容: 4
396	2 Methods	删除的内容: Finally, wend our [36]
	-	
397	2.1 Model configuration	删除的内容: <#>Data

486	We used version 3.8.1 of the WRF model (Skamarock et al. 2008) at a sub-kilometer	删除的内容: convection-permitting
487	resolution to simulate an extreme CBL over the Taklimakan Desert. The model is integrated	删除的内容: sto simulate the [38]
		删除的内容: rainfall
488	for 12_h, starting from 0800 BJT (Beijing Time) on 1 July 2016. We use one-way nested	删除的内容: event inver the Taklimakan Desert
489	WRF model from the mesoscale down to LES scales. All the domains consist of 51 levels	删除的内容: Figure 1 shows the domain for two
409	WRT model from the mesoscale down to LES scales. All the domains consist of 51 levels	experiments. We use the outermost domain and three
490	extended to 50 hPa. The altitudes for the lowest 20 levels are 1130.473, 1157.705, 1207.765,	one-way nested domains.
430	extended to 50 Hr at The annual of the fower 20 fevers the 1150-415, 1157, 705, 1207, 705,	删除的内容: conducted
491	1294.703, 1423.873, 1591.895, 1795.526, 2021.868, 2272.33, 2558.433, 2882.675, 3248.113,	删除的内容: a
492	3658.499, 4118.481, 4633.882, 5212.111, 5855.802, 6517.111, 7151.295, and 7757.151 m, and	删除的内容: -
432	3036.499, 4116.461, 4033.602, 3212.111, 3633.602, 0317.111, 7131.293, and 7737.131 in and	已移动(插入) [1]
493	the horizontal spacing of the model is 12, 3, 1, and 0.33 km for d01, d02, d03, and d04. We	删除的内容: were
133	me profize interresponding of the model is 124 54 family 0.55 km for dot, doz, doz, and dot.	删除的内容: Height
494	used (411 × 321), (791 × 651), (211 × 201) and (403 × 406) model grids, Figure 1. , shows	删除的内容: Ahe altitudes for the lowest 20 levels a re 40
		带格式的: 字体:12 pt
495	the domain used for all the experiments except BDY T3. A smaller grid size (205 × 208) is	删除的内容: Figure 1. Figure 1Figure 1
	The state of the s	带格式的: 字体:12 pt
496	used in experiment BDY_T3 to verify the effect of domain size on the LES_	删除的内容: forDY_T3. S smaller grid sizes (205)
497	The initial_and LBCs are provided at the coarsest mesoscale simulations from the	批注 [LP2]: Are units required for the grid sizes?
		删除的内容: simulation
498	National Centers for Environmental Prediction Global Data Assimilation System Final	删除的内容:
499	Operational Global Analyses <u>dataset</u> . The analyses are $0.25^{\circ} \times 0.25^{\circ}$ grids operationally	删除的内容: (Figure 1).
433	operational Global Atharyses and productionally	已上移 [1]: All domains were 51 levels extended to 50 hPa.
500	prepared every six hours and available on the surface and at 32 mandatory (and other pressure)	删除的内容:
E01	levels from 1000 to 10 tnbar (National Centers for Environmental Prediction 2015),	删除的内容: ized conditionnd LBCslateral boundary
501	levels from 1000 to 10 thoat (National Centers for Environmental Frediction 2013).	删除的内容: on
502	The physical options in the model include the WSM5 microphysics scheme (Hong; Lim	删除的内容: -degree by0.25°-degreegrids ([43]
503	2006), the Yonsei University PBL scheme (Hong; Pan 1996), the Kain-Fritsch cumulus	删除的内容: 26
		删除的内容: millibarso 10 millibarsbar (National 44]
504	parameterization scheme_(Kain 1993; Kain 2004), the rapid update cycle (RUC) land surface.	删除的内容: modelhysical options in the model include [45]
505	model (Smirnova Tatiana et al. 2000; Smirnova et al. 1997), the rapid radiative transfer model	删除的内容: (Smirnova Tatiana et al. 2000; Smirnova et al. 1997)the Noah land surface model(Chen; Dudhia 2001a,
506	(Mlawer et al. 1997) at long wavelengths, and the Dudhia shortwave radiation scheme	2001b),
		删除的内容: longwave,
507	(Dudhia 1989). The cumulus parameterization scheme is only applied to the d01_(12_km) grid	

609	domain to parameterize the convective rainfall and the LES is only applied to d04 (0.333 km).	/	删除的内容:While,nd the large-eddy-simulation / ES
610	Table 1 Jists the experiments. Experiment 1 was the control experiment, denoted as		删除的内容: shows theists the ofexperiments [47]
611	CTRL. Experiments 2 (six-hourly updated LBC; denoted BDY_T2) and 3 (with domain sizes_		
612	205 × 208, denoted BDY T2) were conducted as in the CTRL experiment, but with different		
613	domain sizes and frequency of LBC updates. In experiments 4 (HFX %75) and 5		
614	(HFX %125), the sensible heat flux was reduced to 75 and 125%, respectively, of that in the		
615	CTRL experiment in the RUC land surface scheme to highlight the impact of the sensible heat		
616	flux on the deep CBL in the Taklimakan Desert. In experiment 6 (denoted Noah), the Noah		
617	land surface model (Chen; Dudhia 2001a, 2001b) replaced the RUC land surface model in the		
618	CTRL experiment to discriminate the influence of different land surface models on the deep		
619	<u>CBL.</u>		
620	2.2 Data		
620 621	The model simulations are compared with the Tazhong field experiment carried out	1	删除的内容: toith the Tazhong field experiment 48
			删除的内容: toith the Tazhong field experiment
621	The model simulations are compared with the Tazhong field experiment carried out	1	删除的内容: toith the Tazhong field experiment
621 622	The model simulations are compared with the Tazhong field experiment carried out throughout the month of July 2016 by the Institute of Desert Meteorology, Chinese		删除的内容: toith the Tazhong field experiment
621 622 623	The model simulations are compared with the Tazhong field experiment carried out throughout the month of July 2016 by the Institute of Desert Meteorology, Chinese Meteorological Administration, Urumqi. The main station was located at (86.63° E, 39.03° N).		删除的内容: toith the Tazhong field experiment [48] **##################################
621622623624	The model simulations are compared with the Tazhong field experiment carried out throughout the month of July 2016 by the Institute of Desert Meteorology, Chinese Meteorological Administration, Urumqi. The main station was located at (86.63° E, 39.03° N). The location is relatively flat with few hills and is covered by sand combined with grass		带格式的: 字体:12 pt 删除的内容: Figure 1. Figure 1 带格式的: 字体:12 pt
621622623624625	The model simulations are compared with the Tazhong field experiment carried out throughout the month of July 2016 by the Institute of Desert Meteorology, Chinese Meteorological Administration, Urumqi. The main station was located at (86.63° E, 39.03° N). The location is relatively flat with few hills and is covered by sand combined with grass (Figure 1. c) The deep PBL in our simulation was under a cloudless sky in a dry		带格式的:字体:12 pt 删除的内容: Figure 1. Figure 1
621 622 623 624 625 626	The model simulations are compared with the Tazhong field experiment carried out throughout the month of July 2016 by the Institute of Desert Meteorology, Chinese Meteorological Administration, Urumqi. The main station was located at (86.63° E, 39.03° N). The location is relatively flat with few hills and is covered by sand combined with grass (Figure 1. , c) The deep PBL in our simulation was under a cloudless sky in a dry environment.		带格式的: 字体:12 pt 删除的内容: Figure 1. Figure 1Figure 1 带格式的: 字体:12 pt 删除的内容: and the deep PBL ofn our signalation [19]
621 622 623 624 625 626 627	The model simulations are compared with the Tazhong field experiment carried out throughout the month of July 2016 by the Institute of Desert Meteorology, Chinese Meteorological Administration, Urumqi. The main station was located at (86.63° E, 39.03° N). The location is relatively flat with few hills and is covered by sand combined with grass (Figure 1., c). The deep PBL in our simulation was under a cloudless sky in a dry environment. The surface fluxes were measured by an eddy correlation system using an R3-50		带格式的: 字体:12 pt 删除的内容: Figure 1. Figure 1Figure 1 带格式的: 字体:12 pt 删除的内容: and the deep PBL ofn our signalation [19]

删除的内容: 2...he)...vertical profiles were measured using [51] 689 The vertical profiles were measured using soundings. Upper air soundings of the temperature, pressure, humidity, and wind speed and direction were conducted three to six 690 691 times per day with the CASIC23 GPS sounding system developed by the No. 23 Institute of China Aerospace Science & Industry, The sounding times were 01:15, 07:15, 10:15, 13:15, 692 16:15 and 19:15 693 694 2.3 Synoptic patterns Figure 2 shows the synoptic patterns at 0800 BJT on 1 July 2016 at 850, 700, 500 and 695 删除的内容: ° 100 hPa. There were cyclonic vortexes from 850 to 500 hPa centered at 55° N (Figure 2. a, b 696 删除的内容: Figure 2. Figure 2Figure 2 697 and c). The Taklimakan Desert was located east of the cyclonic vortex and embedded in an 删除的内容: ... b and c). The Taklimakan was ... [52] **带格式的:** 字体:12 pt 698 east-west_elongated ridge at 0800 BJT on 1 July 2016. To the southwest, influenced by the **带格式的:** 字体:12 pt 699 South Asian High centered over the eastern Iranian Plateau, the upper air over the Taklimakan 删除的内容: Figure 2. Figure 2Figure 2 Desert was controlled by the westerly jet stream at 100 hPa (Figure 2. d). A Jow-pressure 700 **带格式的:** 字体:12 pt **删除的内容:** ...). The [53] 701 system at low levels, termed a heat low (Figure 3.), dominated most of southern Xinjiang and 删除的内容: high **带格式的:** 字体:12 pt resulted in continuous high temperatures over the desert. This situation favored subsidence 702 删除的内容: which is ...ermed of [54] 删除的内容: Figure 3. and served as a triggering mechanism for the deep PBL in the region in the subsequent two to 703 删除的内容: Figure 3Figure 3 704 three days (not shown) 删除的内容: area of ...outhern Xinjiang and resulted in [55] 705 Results 删除的内容: <#>Sensitive to Lateral Boundary 706 3.1 Validation of the deep CBL structure Condition(LBC) Simulated d 707 The time series of the surface variables at Tazhong station from the CTRL simulation for 删除的内容: Simulated d...he time series of urnal [... [56]] 删除的内容:0 708 1 July 2016 are presented in Figure 4. a and b. The results show that there are large 带格式的 删除的内容: Figure 4. Figure 4 discrepancies in the thermodynamic surface variables (surface temperature and the sensible 709 带格式的 710 and latent heat fluxes) between the model and the observations. The surface sensible heat flux 删除的内容: 删除的内容: ,...and b. R...he results show that the

775	is far <u>lower in the observations</u> (maximum 243 W m ⁻²) than in the model (maximum 613 W	删除的内容: less ower in the observations [58]
776	m ⁻²), indicating that the sensible heat flux from the WRF simulation is 2.5 times than that of	
770	in familia the sensible heat this from the wki simulation is 2.5 times than that of	
777	the observations when they are both at their maximum. By contrast, the model shows a	
778	significant cold bias for the surface temperature, which is much higher in the observations	
779	(maximum, 70°C) than in the model (maximum, 50°C). To further verify the surface variables,	
780	the root-mean-square, error (RMSE) and mean bias (BIAS) are calculated, including	删除的内容: , the
781	integration hours from 3 to 12 h for Tazhong station (Table 2). The model significantly	删除的内容: inTable 2). As mentioned earlier,
782	overestimates the sensible heat flux (RMSE 263.636 W m ⁻² BIAS:250.14 W m ⁻²) and	
783	dramatically underestimates the surface temperature (RMSE 14.65°C, BIAS13.37°C).	
784	There are two possible reasons for the model sensible heat flux being far greater than	删除的内容: Three
		删除的内容: result inor the model SHensible
785	that of the observations. First, mismatches in land use between the model and the	删除的内容: (
786	observations. The WRF models uses land use categories to assign static parameters and initial	删除的内容 :(1)) Ttheirst, [61]
		删除的内容: mismatch
787	values to each grid cell_(e.g. the albedo and surface roughness; Schicker et al. 2016). However,	删除的内容: ofn landse between the model and tha [62]
788	Figure 1. c shows that station EC is surrounded by a mixture of grass and sand. This complex	带格式的: 字体:12 pt
700	Figure 1. 4. shows that Station Ee is surrounded by a mixture of grass and said. This complex	删除的内容: Figure 1. Figure 1
789	underlying surface may not be adequately reproduced by the model and may have an impact	带格式的: 字体:12 pt
		删除的内容: ,shows that the ECtation EC is
790	on the overestimation of the sensible heat flux. Second, the sensible heat flux and the latent	删除的内容:
791	heat flux based on the eddy correlation method may be underestimated (LeMone et al. 2013).	删除的内容: (2) lit is should be noted thatecond [64]
792	<u>It has been shown</u> that if the other two terms in the budget (the net radiation and flux into the	
702	goil) are converte than the data used for the whole averaginent to find the concible and letant	批注 [LP3]: Please give 'E + LE' in full (no abbreviations).
793	soil) are accurate, then the data used for the whole experiment to find the sensible and latent	删除的内容: Hensible +nd LE
794	heat fluxes for Tazhong station are, on average 75%, of the values required to balance the	MP的中家, equal to on a guerrage of
		删除的内容: 70
795	surface energy budget	■
ı		[[07]
		删除的内容: (LeMone et al. 2013)

904	In contrast with the large differences in the surface variables between the model and the	删除的内容: Despite
301	and the same of th	删除的内容: surface
905	observations, the near-surface variables (the 2 m temperature, the relative humidity and the 10	删除的内容: on the surface variables between the model [68]
006	munical aready Pierrer 4 or found a) in the model are higher than in the absence in the firm	带格式的
906	m wind speed: Figure 4. c. f and g) in the model are higher than in the observations. The time	删除的内容: Figure 4. Figure 44
907	series evolution of the 2 m temperatures follow those of the observations (RMSE 1.66, BIAS.	删除的内容: (Figure 6 e)
		带格式的
908	1.61) but the model produces a surface warmer by about 3 K at the beginning of integration	删除的内容:, f and g) are closer to measurements than [69]
909	and 1 K when the model and observations both reach their maximum temperature.	删除的内容: nearly
909	and 1_K when the moder and observations both reach their maximum temperature	删除的内容: observations
910	The results indicate that the near-surface relative humidity in the model is close to the	删除的内容:1.66, BIAS:1.61); but the modal [70]
		删除的内容: Resultshe results indicate [71]
911	initial observations (Figure 4., f). However, the humidity in the model increases during the	带格式的
912	first few hours of model integration, while the observed humidity decreases. After three hours,	删除的内容: Figure 4. Figure 44
312	mist few hours of model integration, while the poserved numberly decreases. After three hours	删除的内容: fromn the model keepsncreasin [72]
913	of spin-up, the model reproduces the evolution of humidity reasonably well, in agreement	带格式的
914	with the observations (RMSE, 1.22), but the values are higher than the observed values (BIAS,	删除的内容: observation
915	<u>1.11)</u> .	删除的内容:1.22), but theirvalues are relative in bar [73]
		MINA LE J. Jah
916	One reason for this discrepancy is the overestimation of the soil moisture content during	删除的内容: eon of the soil moisture content during the [74]
917	the simulation. The soil moisture content can have a strong influence on the near-surface	
918	humidity. <u>An overestimation</u> of the soil moisture content in the initial condition of the model	
919	may result in a considerable difference in the humidity of the near-surface layer (Talbot et al.	删除的内容:
		IIII IIA tita tita sia da
920	2012). In our simulations, the model produces large overestimates of the soil moisture content.	删除的内容: theur presentimulations, the modal results [75]
921	At initialization of the model in the CTRL simulation, the soil moisture content at 5 cm depth	
321	21 Junianization of the model in the CTRE simulation, include content at 3 cm depth.	删除的内容: Figure 4. Figure 44
922	at station EC was 0.230 m ³ m ⁻³ , whereas the initial value in the model was 0.6 m ³ m ⁻³ (Figure	删除的内容:). This large overestimate of the sail [76]
000	A D THE LOCK OF THE COLUMN TO SERVICE AND A	删除的内容: Figure 4. Figure 44
923	4. d). This large overestimate of the soil moisture content results in a continuing increase in	删除的内容:, f) from the model continue to in [77]
924	the latent heat in the model (Figure 4. b, f). As a result, the near-surface in the model is far	删除的内容: from the model to continue increasing, then
		forces near-surface far moister than observation at the first
925	moister than in the observations during the first few hours of model integration. The model	few hours of model integration.
•		删除的内容: An interesting result to note is that t

1035	simulation has the ability to correct some of the bias due to the initial conditions of the	删除的内容: abilitiesbility to correct some of tha hiac dua
1036	surface, and the results from the CTRL experiment are closer to the observed values after three	删除的内容: t
1037	hours_of spin-up_	删除的内容: observationbserved values after 3 [79]
1038	Figure 5. (solid lines) compares the potential temperatures simulated by the model with	删除的内容: Figure 5. Figure 5
1039	the GPS sounding measurements (dash lines) at Tazhong from 0800 to 2000 BJT on 1 July	删除的内容: The model simulatedotential temparaturac [80]
1040	2016. The radiosonde was about 7 km away from Tazhong when it reached a height of 6 km.	
1041	The profiles of the model simulations are therefore averaged at a radius of 3.5 km from the	
1042	measurement station. When the model is initialized at 0800 BJT, the nocturnal inversion	
1043	reaches 300 m (not shown). This inversion is eroded in the model by 1100 BJT, in agreement	
1044	with the observations, and both the model results and the observations reach, about 300 m at	
1045	1100 BJT (Figure 5. a). However, the simulated CBL grows faster in the morning than that in	删除的内容: Figure 5. Figure 5Figure 删除的内容:). However, the simulated CBL grave factor 81
1046	the observations due to a larger sensible heat flux, reaching 3500 m (3000 m in the	([81]
1047	observations) at 1400 BJT (Figure 5. h). The simulated and observed CBL heights exceed	删除的内容: Figure 5. Figure 5Figure 删除的内容:
1048	4000 and 5000 m, respectively, at 1700 BJT (Figure 5. c). This indicates that the simulated	删除的内容:
1049	CBL increases more slowly in the afternoon than the observed CBL. Compared with the	删除的内容: At 1700 BJT (Figure 5Figure c),, t. ha Mk的内容: Figure 5. Figure 5
1050	measurements, the model is initially cooler, but with a faster heating rate in the morning. As a	删除的内容: growsncreases more slowly in the afternoon [83]
1051	result, the model is warmer than the observations in the afternoon, but in agreement with the	删除的内容: The main source of model error is inauthentic
1052	observations by the end of the day. This may be due to the differences in the potential	cold advection within PBL in the afternoon which will be discussed below. Another
1053	temperature lapse rate above the top of the mixing layer between the observations and the	删除的内容: One possible minor reason ishis man badina [84] 删除的内容: simulated
1054	simulated results. The stronger simulated inversion layer restricts the development of the	删除的内容: Simulatedhe stronger simulated invarian
1055	CBL	删除的内容: Han et al. (2012)
1056	The model initially simulates a cooler and drier CBL at 1100 BJT on July 2016 than the	删除的内容: Moreover, in terms of CBL temperatures, t 删除的内容: P
	and moust initially simulates a cooler and after QDE at 1100 D31 on 3thy 2010 than the	删除的内容: at

1143	observations (Figure 5. a). Compared with the observed potential temperature profile, the		删除的内容: edtions,at 1100 BJT01 JUL [87]
1	and the political printing in the political temperature promise, and		删除的内容: Figure 5. Figure 5Figure 4
1144	CBL appears earlier in model forecasts <u>due to an</u> obvious warming in <u>the surface layer. The</u>)	删除的内容: toith the observed potential temperature [88]
1145	residual layer, may play a key part in the deep PBL over the Taklimakan Desert, At 1100 BJT,		([66])
1146	when the CBLH (Convective Boundary Layer Height) in the observations was about 300 m.		#格式的: 字体: (默认) Times New Roman, (中文) +中文主题正文 (宋体), 字体颜色: 文字 1
1147	the potential temperature was about 317 K in the PBL and 320 K in the residual layer. When		删除的内容: was about 300 mn the observation [89]
1148	the potential temperature in the CBL increased to the value in the residual layer (320 K), the		
1149	CBL merged with the residual layer and the height of the PBL in the observations reached	////	
1150	3000 m at 1400 BJT. These results are in good agreement with those of Han et al. (2012)		
1151	who, by analyzing observations from a CBL in the Badanjilin region, found that the CBL,		
1152	developed rapidly after 1200 LST, possible as a result of the disappearance of the inversion		
1153	layer		
1154	When the sensible heat flux reached its maximum at 1400 RIT (Figure 5 h) the		删除的内容: However, w
1154	When the sensible heat flux reached its maximum at 1400 BJT (Figure 5. b), the		删除的内容: However, w 删除的内容: SH
1154 1155	When the sensible heat flux reached its maximum at 1400 BJT (Figure 5. b), the potential temperature profile was closer to the observations than at the initial time and their		
1155	potential temperature profile was closer to the observations than at the initial time and their		删除的内容: SH
	The state of the s		删除的内容: SH 删除的内容: haseached[90]
1155	potential temperature profile was closer to the observations than at the initial time and their		删除的内容: SH 删除的内容: haseached [90] 删除的内容: s
1155 1156 1157	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being		删除的内容: SH 删除的内容: haseached [90] 删除的内容: s 删除的内容: extent
1155 1156	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL		删除的内容: SH 删除的内容: haseached
1155 1156 1157	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being		删除的内容: SH 删除的内容: haseached [90] 删除的内容: s 删除的内容: extent 删除的内容: Figure 5. Figure 4 删除的内容: isas closer to measurementshe [91]
1155 1156 1157 1158 1159	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being about 0.4 K cooler at lower levels (<2.5 km). One cause of the higher temperatures produced in the model may be the large difference in the surface heat fluxes and we concluded that the		删除的内容: SH 删除的内容: haseached [90] 删除的内容: s 删除的内容: extent 删除的内容: Figure 5. Figure 4 删除的内容: isas closer to measurementshe [91] 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: PBL height 删除的内容: Hin the model reaches its maxin [92]
1155 1156 1157 1158	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being about 0.4 K cooler at lower levels (<2.5 km). One cause of the higher temperatures produced		删除的内容: SH 删除的内容: haseached[90] 删除的内容: s 删除的内容: extent 删除的内容: Figure 5. Figure 4 删除的内容: isas closer to measurementshe[91] 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: PBL height 删除的内容: Hin the model reaches its maxinum alual [92] 删除的内容: ,onsistent with the observations, aluanum [93]
1155 1156 1157 1158 1159	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being about 0.4 K cooler at lower levels (<2.5 km). One cause of the higher temperatures produced in the model may be the large difference in the surface heat fluxes and we concluded that the		删除的内容: SH 删除的内容: haseached [90] 删除的内容: s 删除的内容: extent 删除的内容: Figure 5. Figure 4 删除的内容: isas closer to measurementshe [91] 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: PBL height 删除的内容: Hin the model reaches its maxin [92]
1155 1156 1157 1158 1159	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being about 0.4 K cooler at lower levels (<2.5 km). One cause of the higher temperatures produced in the model may be the large difference in the surface heat fluxes and we concluded that the surface sensible heat flux from the land surface parameterization was the crucial factor		删除的内容: SH 删除的内容: haseached[90] 删除的内容: s 删除的内容: extent 删除的内容: Figure 5. Figure 4 删除的内容: isas closer to measurementshe[91] 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: PBL height 删除的内容: Hin the model reaches its maxinum alual [92] 删除的内容: ,onsistent with the observations, aluanum [93]
1155 1156 1157 1158 1159 1160	potential temperature profile was closer to the observations than at the initial time and their value was higher than the observed values. By 2000 BJT (Figure 5. d), the height of the CBL in the model reached its maximum value, consistent with the observations, despite being about 0.4 K cooler at lower levels (<2.5 km). One cause of the higher temperatures produced in the model may be the large difference in the surface heat fluxes and we concluded that the surface sensible heat flux from the land surface parameterization was the crucial factor affecting the CBL processes during the daytime in summer. Differences in the surface		删除的内容: SH 删除的内容: haseached[90] 删除的内容: s 删除的内容: extent 删除的内容: Figure 5. Figure 4 删除的内容: isas closer to measurementshe[91] 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: Figure 5. Figure 5Figure 4 删除的内容: PBL height 删除的内容: Hin the model reaches its maxinum alual [92] 删除的内容: ,onsistent with the observations, aluanum [93]

删除的内容: Fortunately, one can artificially modify t 1255 simulation. Fortunately, the surface sensible heat flux computed by the Jand surface model 删除的内容: T can artificially be modified to control the calculation of the surface fluxes. Sensitive 1256 删除的内容: he ...urface SH...ensible heat flux cq 删除的内容: modified 1257 simulations will be realized and discussed in next section, 删除的内容: ,...which ...o controls...the calculation of the [96] Figure 5. also shows vertical profiles of the vapor mixing ratio (dashed lines) at 1258 删除的内容: 删除的内容: Figure 5. Figure 5Figure Tazhong station. The simulated profiles with a lower residual layer are much drier than the 1259 删除的内容: also ...hows vV...rtical profiles of that 1260 observations from 1500 to 3500 m at 1100 BJT. Vertical mixing results in a uniform structure of the vapor mixing ratio within the CBL, so the differences between the profiles of the 1261 1262 simulated results and the observations are remarkably reduced when the CBL is above 4000 m at 1400 BJT. <u>The differences are generally 12 g_kg^-1</u> at 1100 BJT, reaching a maximum of 1263 1264 0.3 g kg⁻¹ at 1400 BJT. However, the PBL shows an inverse layer at lower levels (\$\square\$2000 m) 1265 with a measured moisture content of 2.8-3.6 g kg⁻¹, which is not captured by the model. As the CBL grows, the inversion moisture structure below 3000_m develops and is maintained 1266 below 3000 m from 1400 to 2000 h BJT. By the end of the day, the simulated humidity of the 1267 删除的内容: with no ...nverse moisture layer with [1... [98]] CBL is higher than in the observations because the model cannot reproduce the inverse 1268 删除的内容: moisture layer within the CBL 1269 删除的内容: Inverse ...he inverse pattern in humidity may be 1270 The inverse pattern in humidity may be caused by the interactions between the 1271 heterogeneous pattern of humidity and large-scale advection over the underlying surface. For 1272 instance, the interaction of an oasis with the desert environment may Jead to an inverse 1273 humidity layer in the PBL above the desert. One possible reason for the discrepancy between 1274 the model results and the observations may be an error in the classification of land use type.

The USGS land use data in the ARW-WRF model is based on Advanced Very High

Resolution Radiometer, 1_km resolution satellite data during the time period 1992, 1993, and

1275

1352	this land_use data may no longer be accurate in the Taklimakan Desert. Misclassifications 删除的内容:se data may no longer be outdated
1353	have also been found in the USGS land use data, which is the default land use dataset in the
1354	WRF_model_(Schicker et al. 2016). This is confirmed by the discrepancies in land use
1355	between the simulation and the observations at Tazhong station, The large-scale advection of
1356	dry air can affect the moisture profile. The moisture content is also variable in the horizontal
1357	direction, so advection at Jow levels may contribute to the drier conditions in the lower PBL 删除的内容: at bottom base of the
1358	and more moist conditions in the upper PBL between 1100 and 2000 BJT. *** 批注 [LP4]: This sentence has been edited for clarity – please check and confirm meaning is now correct.
1359	The mismatch between the model results and the observations in terms of moisture 删除的内容: moistureore moist conditions at 101]
1360	content suggest that the effects of land use type and large-scale advection need to be
1361	quantified and that more detailed data may be required for the Taklimakan Desert (both land
1362	and atmosphere) to realize more realistic results. Extra care should also be taken with the
1363	sparse and Jimited data at the periphery of the Taklimakan Desert (ter Maat et al. 2012).
1364	3.2 Sensitivity to the lateral boundary conditions. 删除的内容: ety to the lateral boundary [103]
1365	After verifying the details of the LES experiments, we assessed the sensitivity of the 删除的内容: simulationexperimentss [104]
1366	simulations to the time resolution and domain size of the specified LBCs. For a one-way nest, 删除的内容: LESimulations to the time resolution and domain size of the specified LBCs. For a one-way nest,
1367	the specified LBCs are obtained from coarser simulations. The analysis and forecast times
1368	/ 删除的内容:s
	from a previously run larger area simulation are used to specify the LBC. The primary cause
1369	of the differences in the structure of the PBL was diagnosed as the difference in the domain Mikhola PBL Mikhola PBL
1369 1370	#INDEX THE PILL THE
	of the differences in the structure of the PBL was diagnosed as the difference in the domain sizes and frequency provided by the coarser resolution. The aim was to assess the sensitivity of the finer LESs to uncertainties of the specified LBC forcing by model simulations with a
1370	of the differences in the structure of the PBL was diagnosed as the difference in the domain sizes and frequency provided by the coarser resolution. The aim was to assess the sensitivity
1370 1371	of the differences in the structure of the PBL was diagnosed as the difference in the domain sizes and frequency provided by the coarser resolution. The aim was to assess the sensitivity of the finer LESs to uncertainties of the specified LBC forcing by model simulations with a

1 447	mixing ratio profiles from the LBC sensitivity experiments and observations. The results	删除的内容: Rhe results indicathowethat, thars is a 108
]		
1448	show that there is a distinct relationship between the development of the LBCs and the CBL.	删除的内容: more moist
1449	The profiles produced by the model are almost all the same at the initial time (not shown).	删除的内容 : erfree troposphere. Such
		删除的内容: Figure 5. Figure 5Figure 4
1450	However, the results show that there are large discrepancies in the CBL structure among the	带格式的: 检查拼写和语法
1451	different experiments. The results indicate that a larger domain size and higher time	删除的内容: Furthermore, inver the next three hours the [110]
		删除的内容: Figure 5. Figure 4 带格式的: 检查拼写和语法
1452	frequency for the LBCs leads to a warmer and drier PBL, but a cooler and moister free	耐冷丸的: 極重折与和店公 删除的内容: , b). The potential temperature prefiles
1453	troposphere. This sensitivity is monotonic with respect to the LBCs (Figure 5.). Over the next	删除的内容: Figure 5. Figure 4
		带格式的 :检查拼写和语法
1454	three hours, the differences between the sensitivity experiments increase over time (Figure 5.	删除的内容:)Finally, [112]
4.55		删除的内容: and
1455	a, b). The potential temperature profiles within the CBL diverge at 1100 BJT. However, the	删除的内容: by
1456	results show a greater convergence in the afternoon as the CBL continues to grow (Figure 5. c)	删除的内容: Figure 5. Figure 5Figure 4
		带格式的: 检查拼写和语法
1457	but the largest discrepancies are found at end of the day (Figure 5. d) when the model CBL	删除的内容:) where the model CBL poten in [113]
	//	带格式的: 字体:12 pt
1458	potential temperature is warmer than the observations by up to 0.7 and 0.9 K in BDY T2 and	删除的内容: Figure 6. Figure 6 6
1/150	RDV T1 respectively	带格式的: 字体:12 pt
1459	BDY_T1, respectively,	删除的内容: sectionsalong 39.03°Nf the harizontal [114]
1460	Figure 6. shows cross-sections of the horizontal winds along 39.03° N, superposed with	带格式的: 字体:12 pt
]		删除的内容: Figure 6. Figure 6 6
1461	theta and the vapor mixing ratio. Less frequent updates of the LBCs are desirable in the cold	带格式的: 字体:12 pt
		删除的内容:, c). L larger domain size, which [115]
1462	zone near the LBCs, which results in cold advection of the temperature and moisture to the	带格式的: 字体:12 pt
		删除的内容: Figure 6. Figure 6 6
1463	area of interest (Figure 6. b, c). A larger domain size, which changes the distance of the area	带格式的: 字体:12 pt
1464	of interest from the LBC, is efficient in reducing the influence of large forecast errors near the	制除的内容:
	of interest from the LBC, is effectively reducing the influence of this forecast effect from their the	删除的内容: The results suggest that the model results are
1465	LBCs on the area of interest (CMP, Figure 6. a. c).	sensitive to changes in the time resolution and domain size of
		Sthe specified LBCs. The mismatch among sensitive
1466	To further examine the impact of the LBCs on the turbulence in the deep Taklimakan	experiments is present means that the effect of the LBCs
		needs to be quantified to realize a more realistic performance in the sub-kilometer-scale simulations.
1467	Desert CBL, the instantaneous vertical velocity fields are shown in Figure 7. By 1400 BJT,	制除的内容・S on the turbulence of n the deep.
1460	the convection of the CTDL simulation had also derive interest of an deriverse and	#注 [LP5]: Is Figure 7 correct here?
1468	the convection of the CTRL simulation had clearly intensified under strong surface heating	1
		删除的内容: obviously

	16		
1 586	LBCs. The mismatch among sensitive experiments means that the effect of the LBCs needs to		
1585	model results are sensitive to changes in the time resolution and domain size of the specified		
1584	Tazhong station in BDY_T3 is much weaker than in BDY_T2. The results suggest that the	/	
1583	convection is weaker at the boundary. The horizontal distribution of the vertical velocity at		
1582	experiments. The inflow boundary is wider in BDY T2 and BDY T3 and the intensity of the		([161])
1581	BDY T3 are about 4 m, s ⁻¹ , much weaker than in the CTRL (9, m s ⁻¹) and BDY T2 (8 m s ⁻¹)		带格式的: 字体:(中文) SimSun, 10 pt 删除的内容:). Phe peak up-drafts io BDV T2 ara [121]
1580	The up-drafts are much weaker in experiment BDY T3 (Figure 8. c). The peak up-drafts in		带格式的: 字体: (中文) SimSun, 10 pt 删除的内容: Figure 8. Figure 88
1579	A1-A2 split into stronger and more irregular motions in the CTRL and BDY T2 experiments.		
1578	cross-sections of w along Tazhong station (39° N). Wide and regularly spaced up-drafts along		
1 577	To further examine the vertical structure of the desert CBL, Figure 8 presents vertical	1	删除的内容:o further examine the vertical structure of [120]
1576	and the horizontal extent of the up-/down-drafts agrees with the CTRL experiment.		
1575	fields in the BDY T2 experiment are similar to those in the CTRL experiment in plan view,		
1574	(about 6 m s^{-1}). However, despite the underestimation of the potential temperature, the w		
1573	the low-frequency LBCs, resulting in much weaker maximum and minimum values of w		
1572	at the center of the model is directly influenced by the inflow of cold advection produced by		
1571	maximum and minimum values at the boundary of the domain. In BDY T3 Tazhong station		删除的内容:, c) both reproduce motions with 119
1570	BDY_T2 and BDY_T3 experiments (Figure 7), c) both reproduce motions with much weaker		批注 [LP8]: Is Figure 7 correct here?
1 569	boundary layer rolls is clear in the horizontal view showing the strength of convection. The		批注 [LP7]: It is not clear what you mean here by 'boundary layer rolls' – please try to clarify.
1568	to just under 4 km. The cellular shape of the up- and down-drafts characteristic of the	//	
1567	rolls correspondingly increased to about 12 km and the height of the peak up-draft, was raised		删除的内容: he distances between the boundary laws [118]
1566	mixed layer grew to about 4.3 km (Figure 7 a). The distances between the boundary layer		批注 [LP6]: Is Figure 7 correct here?
1565	(Xu et al. 2018). Thus the maximum vertical velocity reached 9 m s ⁻¹ and the depth of the	1	删除的内容:hus,the maximum vertical velocity [117]
_			

1647	be quantified to realize a more realistic performance in sub-kilometer-scale simulations.		
			删除的内容:
1648	3.3 Simulations with different surface sensible heat fluxes and land surface		删除的内容: (SH)nd surface-
1649	models	1	删除的内容: The
1049	models		删除的内容: primary
1650	An important cause of the differences in the structure of the PBL was determined to be		删除的内容: PBLhe structure of the PBL was diagnoced [123]
			删除的内容: surface sensible heat flux
1651	the differences in sensible heat flux predicted by the land surface schemes. The sensible heat		删除的内容: SHensible heat flux predicted by the curfus [124]
1652	flux is a key factor affecting the height of the CBL during daytime in summer. The difference		删除的内容: surface sensible heat flux
			删除的内容: SHensible heat flux is one of the [[125]]
1653	between the models and observations may therefore lead to differences in the growth of the		删除的内容: dominant
1654	PBL during the day To further confirm whether this occurs, three additional sensitive		删除的内容: H
100.		M/M	删除的内容: depth
1655	simulations were realized based on the CTRL experiment. The Noah land surface model		删除的内容: summerayime in summer. Thu [126]
1656	replaced the RUC land surface model in the CTRL experiment and the sensible heat fluxes for		删除的内容: the
1030	replaced the ROC land surface, model in the CTRE experiment and the sensible heat maxes of		删除的内容: PBhe Lrowth of the PBL during tha
1657	HFX-125% and HFX-75% are %125 and %75 that of the CTRL (HFX -100%) experiment		删除的内容: and in its peak depth during the simulated day
1650	while the other negrounders remain the same		删除的内容: ; To further confirm whether this indead [128]
1658	while the other parameters remain the same		删除的内容: two
1659	The results in Figure 10., and Table 2 show that HFX-75% successively improved the		删除的内容: For Noah experimenthe Noah land[129]
	\		删除的内容: For
1660	simulation of the sensible heat flux with an RMSE of 151.12 compared with 263.64 and		删除的内容: ,and HFX75% the surface sensible heat [[130]]
1661	357.11 in the CTRL and HFX-125% experiments, respectively. The Noah Jand surface		删除的内容:
			删除的内容: ,while the other parameters remain the came [[131]]
1662	experiment yielded the best performance in terms of the sensible heat flux, the surface		删除的内容: from
1663	temperature and the air temperature. However, the Noah Jand surface model showed large		删除的内容: Figure 10. Figure 10
			带格式的: 检查拼写和语法
1664	discrepancies with the observations in terms of the soil moisture content, resulting in a	/	删除的内容: edthat HFX-75% successively improved that Line [132]
1005	dramatic overestimate of the latent heat flux and relative humidity compared with the CTRL	/ /	删除的内容: F further examining [133]
1665	diamatic overestimate of the latent heat hux and relative number compared with the CTRL		带格式的: 字体:12 pt
1666	experiment.		删除的内容: Figure 9. Figure 9 带格式的: 字体:12 pt
			删除的内容: The resultsndicates that , [134]
1667	A further examination of the potential temperature and vapor mixing ratio (Figure 9.)		删除的内容: with smaller SH ([134]
1668	indicates that a smaller sensible heat flux leads to a cooler, more moist lower PBL and a		删除的内容: and
1			删除的内容: er

1 773	warmer, drier free atmosphere. This sensitivity is monotonic with respect to the sensible heat	删除的内容: andrier free troposphere [[136]]
		删除的内容: Suchhis sensitivity is monotonic with recensed.
1774	flux. The structure of the CBL from the HFX-75% and Noah experiments matches the GPS	删除的内容: determinedrom the HFX-%5% and Moah [138]
1775	radiosonde measurements better than the CTRL (HFX-100%) simulations. The potential	删除的内容: (FX-100%) simulations. The nPtential
1775	<u>radiosonde</u> measurements better than the CTRL <u>thrx-100%</u> simulations. <u>The potential</u>	([103]
1776	temperature profiles from the CTRL (HFX-100%) and HFX-125% experiments are	删除的内容: CTRLnd (FX-125% experiments 140]
1777	consistently warmer than the observations by about 0.4 and 0.5 K, respectively, whereas the	删除的内容: whilehereas the results from the UEV 75% [141]
1778	results from the HFX-75% and Noah experiments are within about 0.2 K at 1400 BJT (Figure	删除的内容: CTRL(HFX-100%)
1	Tourist Touris	带格式的: 字体:12 pt
1 779	9. b). These results suggest that the model is sensitive to changes in the sensible heat flux	删除的内容: Figure 9. Figure 9Figure
		带格式的: 字体:12 pt
1780	from the land surface model. The simulations converge at the end of the day, although there	删除的内容:
		已移动(插入) [2]
1781	are still differences at 2000 BJT (Figure 9. d). The HFX-75% and Noah experiments with a	删除的内容: results ares sensitive to changes ip the [142]
1702	weaker surface sensible heat flux still produce almost the same deep CBL as the CTRL and	删除的内容: Smulations results
1782	weaker surface sensible near hux sum produce annost the same deep CBL as the CTRL and	删除的内容: but remain
1783	HFX-125% experiments. This indicates that the sensible heat flux may not the dominant	带格式的: 字体:12 pt
1,03	11174 12576 experiments. This indicates that the periodo feat that they not the dominant	删除的内容: Figure 9. Figure 9Figure
1784	factor in the formation of the deep CBL over the Taklimakan Desert	带格式的: 字体:12 pt
		删除的内容:
1785	The results of the simulations of the desert PBL in the morning agree with previous	删除的内容:
4706		已上移 [2]: The results suggest that the model results are
1786	studies of the sensitivities the land surface model in other areas (Hu et al. 2010; Zhang et al.	sensitive to changes SH from land-surface model.
1 787	2017). However, all the experiments produce nearly the same height of the CBL and moisture	删除的内容: cantill produce almost the sameth [144]
		删除的内容: Rhe results of the simulations on the decart [145]
1788	content from 1700 to 2000 BJT on 1 July 2016 (Figure 9. b, d), in agreement with the	删除的内容: Figure 9. Figure 9
1789	observations in the PBL. The effects of the sensible heat flux on the evolution of the PBL	删除的内容: SHensible heat flux on the evolution of the
1790	structures in the Taklimakan Desert during this period need to be examined further to	
1791	determine why the simulations are insensitive to land surface processes at the end of the day.	
1792	As reported by Stull (1988), the development of the CBL is mainly influenced by the effects	

of thermodynamic and turbulent entrainment if we do not consider factors such as large-scale,

advection or subsidence. In addition to the surface sensible heat, the intensity of the

1793

1881	entrainment process determines the increase in the CBL. Thus, the entrainment rate w_e is a 删除的内容: ing in the rate ofCBL. Thus,
1882	valuable indicator of the development of the structure of the PBL. The rate of growth of the
1883	CBL_{e} is mainly determined by the entrainment rate w_{e} at the inversion layer without
1884	considering large-scale vertical motion. w_e usually has a positive correlation with the amount
1885	of heat flux at the inversion layer $\overline{(w'\theta_v')_h}$ and LES experiments show that $\overline{(w'\theta_v')_h}$ is $\overline{w'(\Theta)}$ 域代码已更改
1886	about 0.2 times the surface flux of the buoyancy $(w^!\theta_0^!)$. During the period from 1100 to
1887	1400 BJT, a larger sensible heat flux is clearly correlated with stronger turbulent entrainment 删除的内容: larger SH larger sensible heat flux is clearly correlated with stronger turbulent entrainment
1888	and warmer air from the free atmosphere entraining into the Mixing Layer (ML). As a result, 地往 [LP9]: Please give 'ML' in full – no abbreviation.
1889	the CBL develops rapidly and warms too guickly in the early simulation phase due to the 删除的内容: isarms too fastuickly in the early[150]
1890	clear increase in temperature and strong vertical mixing in the model. The reduction in the
1891	sensible heat flux reproduces the evolution of the desert PBL better in the early simulation
1892	phase because the HFX-75% and Noah simulations produce the smallest simulation errors in
1893	both temperature and moisture. However, the height of the CBL and the potential temperature
1894	for HFX-75% and Noah reach 5000 m and 323.2 K, respectively, at 1700 BJT (Figure 9. a). 删除的内容: Figure 9.
1895	For the rest of the day, the rest of the day, the rest of the day, the increase in the height of the CBL slows due to the deep
1896	CBL (>5000 m), which requires more heat for the increase in the depth of the PBL, ve
1897	decreases with increasing intensity of the inversion, which inhibits the mixing and
1898	entrainment processes. These two factors limit the growth of the CBL when the height
1899	is \$5000 m in this deep desert event. Therefore, increasing the sensible heat flux from 75, to 删除的内容: example
1900	删除的内容: ,increasing the SHensible heat [how from 152] 125% significantly reduced the total time required for the increase in the CBL to a relatively
1901	low altitude (<5000 m) at the middle and preliminary stages of the development of the CBL, 删除的内容: k
1902	rather than produces a higher CBL at a later stage. When the height of the CBL over the 删除的内容: the

删除的内容: Figure 9. Figure 9 (Figure 9. d). As a result, the PBL is basically the same in the WRF simulations and is not 1975 删除的内容: ...). As a result, the PBL of WRF s 1976 sensitive to the sensible heat flux at the end of the day. 删除的内容: 1977 Summary 删除的内容: This paper assesses In this paper, we assessed the performance of the WRF, model LES, in an example of a 1978 删除的内容: W 1979 deep convective PBL over the Taklimakan Desert. The tests were performed with multiple 删除的内容: Weather Research and Forecasting [155] configurations and sensitivity experiments. The sensitivity tests for the LBCs showed that the 980 981 model results are sensitive to changes in the size of the time resolution and domain of the 982 specified LBC. A larger domain size changes the distance of the area of interest from the LBC 删除的内容: Whereas, the more frequently updated LBC is 983 and is efficient in reducing the influence of the large forecast error near the LBC desirable to inhibit model error near the LBC. Air variables (air temperature, relative humidity and 10m wind speed) are 984 The model reproduces the evolution of PBL processes reasonably well with the closer to measurements than at surface, but their values are relative higher than those observed. However, it is found that configuration used in this study. The model shows discrepancies between the main CBL 985 discrepancies of thermodynamic surface variables (the surface temperature, sensible and latent fluxes) between characteristics in the morning, including the thermal and moisture structures. The model 1986 model and observation are large during 12h simulation. 删除的内容: Consequently, with the configuration used in simulates the relatively colder and drier morning CBL, underestimating the temperature in the 1987 this study, t...he model reproduces reasonably well 删除的内容: well near-surface layer at Tazhong station by up to 1.5 K and the moisture content by 1 g kg⁻¹. The 1988 删除的内容: it ...he temperature in the near-surface last 989 overestimation of the CBL profile may be caused by initial discrepancies between the model 删除的内容: t 删除的内容: y...es between the model and measy 990 and the observations. This indicates that the results are sensitive to the initial conditions of the 删除的内容: struggles to ...orrectly simulate 991 model, although the simulation seems to be able to correct some of the bias due to the initial 删除的内容: more moist 删除的内容: er...than thos... observed [160] conditions. The model correctly reproduces the thermal structure in the afternoon, but the 1992 删除的内容: Theta simulations are relatively warmer and moister than the observations. The potential 1993 删除的内容: P 删除的内容: which ...t the CBL appears warmer temperature profile at the CBL appears warmer than the observations by about 0.4 K. The 1994 删除的内容: by up to about 0.4K compared to... 1995 model seriously overestimates the moisture content in the afternoon and overestimates the 删除的内容: overestimate 删除的内容: afternoon ...oisture content in the aftern [163]

Taklimakan Desert exceeds 5000 m, it may not change in proportion to the sensible heat flux

2103	vapor mixing ratio in the CBL by about 1-2 g kg ⁻¹ . The largest discrepancies are found in 0-3	1	删除的内容: by about 1 to 2 g/Kgn the CBL by about 1 to 2 g/Kgn the CBL by about 1 2
2104	km layer, where the model vapor mixing ratio is twice as moist as that of the observations (up /	//	
2105	to about 3 g kg^{-1}	,,,,,,,,	删除的内容: above AGL
			删除的内容: as observed ([165]
2106	Three additional simulations were realized to confirm whether the large differences in	-	删除的内容: Furthermore, two three additiona [166]
2107	the sensible heat flux lead to differences in growth of the CBL during the daytime relative to		批注 [LP11]: Please give 'ABL' in full (no abbreviation).
			删除的内容: A
2108	the CTRL experiment. The results suggest that the model results are sensitive to changes in	\rightarrow	删除的内容: ,based onelative to the CTRL [167]
2109	the sensible heat flux and different land surface models. The large difference between the		删除的内容: from
2110	model and observations may lead to differences in the growth of the CBL during the daytime.	1	删除的内容:urface models. The large difference hatturan [168]
2111	Jt was concluded the surface sensible heat flux is an important factor affecting the processes /		删除的内容: then dominant [169]
	ge was constitued the same sense hear han he same action and the same action action and the same action	****	删除的内容: CBL
2112	of the CBL over the Taklimakan Desert during the daytime in summer. However, its peak		删除的内容: depth
2113	depth during the simulation was less sensitive to the sensible heat flux because w_{ε} had		删除的内容: summerhe dayime in summer [170]
2114	decreased by the end of the day. One should note that the CBL of Taklimakan need several		
2115	days of favorable environment to reach its super depth (> 4000m), and sustained high		
2116	temperature and SH is the crucial factor for CBL to develop from shallow to deep CBL. The		
2117	SH is not dominant factor, but still an important factor affecting the deep CBL.		删除的内容: Thus, the large difference between the model and observation may lead to differences in CBL growth
2118	Future work will study several other examples of a deep CBL over the Taklimakan		during daytime and in its peak depth during the simulation.
2119	Desert to determine their common features. We hope to use high-resolution models and		删除的内容: The future work aimed toill studic causes [171]
2120	observations to describe the fine characteristics of a typical deep <u>CBL</u> over the <u>Taklimakan</u>		删除的内容: by,
2121	Desert, particularly the turbulent and vertical mixing and its impact on the regional weather		
2122	forecast. This research aims to improve our understanding of the deep CBL over the		删除的内容: is aimedims to improve the [172]
2123	Taklimakan <u>Desert</u> and its influence on <u>the</u> regional weather and climate.		
2124	Conflict of interests	and the same	删除的内容: Interests

2193	The authors declare that there is no conflict of interests regarding the publication of this paper.		删除的内容: s
	_ \	**********	删除的内容: con
2194	Acknowledgments		
2195	This study is supported by the National Natural Science Foundation of China (Grant no.		删除的内容: the State Key Program of
2196	41575008 and 41775030). The author thanks the reviewers and editors for their professional		删除的内容: would like to
			删除的内容: all
2197	advice <u>in improving this paper.</u>		删除的内容: to
2198		A. Salar	删除的内容: e
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207	Captions:
208	Figure 1. Simulation domains used in the ARW model with (a) the terrain height (shaded,
209	units:m), (b) the land use categories for domains D03 and D04 and (c) photograph of the area
210	around Tazhong station,
211	Figure 2. Horizontal distribution of the geopotential height (solid lines, units: da gpm), wind
212	speed (shaded, units: knots) and wind barbs from the NCEP FNL analysis at 0800 BJT on 1
213	July 2016 at (a) 850, (b) 700, (c) 500 and (d) 100 hPa Figure 2. Horizontal distribution of the
214	geopotential height (solid lines, units: da gpm), wind speed (shaded, units: knots) and wind
215	barbs from the NCEP FNL analysis at 0800 BJT on 1 July 2016 at (a) 850, (b) 700, (c) 500
216	and (d) 100 hPa _e
217	Figure 3. NCEP FNL 700 hPa potential temperature (colors) and mean sea level pressure
218	(white lines) at 0800 BJT on 1 July 2016. The black dot shows the location of Tazhong station
219	in Xingjiang province
220	Figure 4. Time series of the initial simulated surface variables from the innermost domain of
221	the simulations and the surface observations at Tazhong station (83.63° E, 39.03° N) at 0800
222	BJT on 1 July 2016: (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d)
223	soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at
224	10 m; and (h) wind direction at 10 m _y
225	Figure 5. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing
226	ratio (dashed line, units: g kg ⁻¹) from the innermost domain of the simulations and the
227	observations from GPS sounding at Tazhong station (83.63° E, 39.03° N) at (a) 1100, (b)

删除的内容: Figure 1. Simulation domains used in the ARW model with (a) the terrain height (shaded, units:m), (b) the land use categories for domains D03 and D04 and (c) photograph of the area around Tazhong station.

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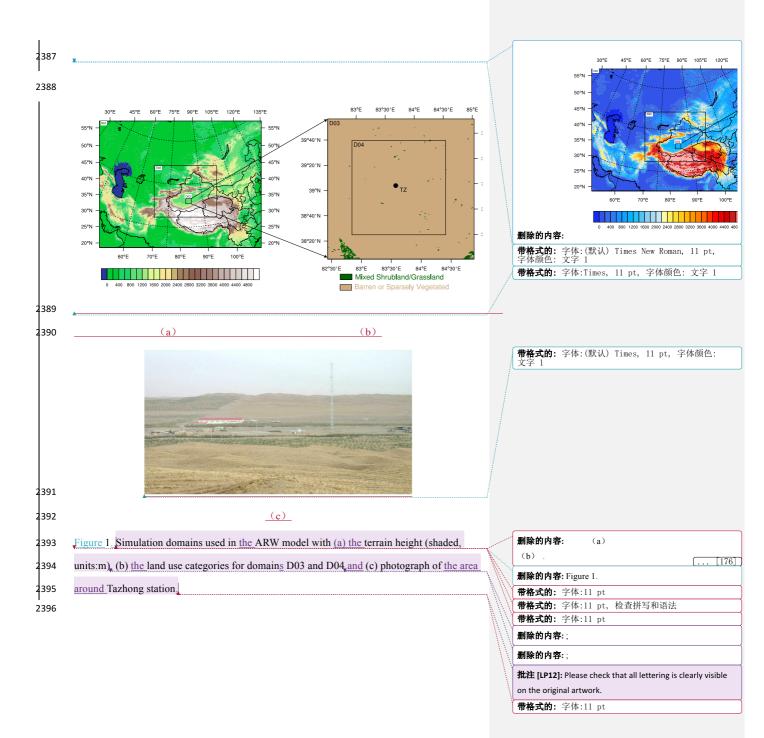
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删除的内容: Figure 4. Time series of the initial simulated surface variables from the innermost domain of the simulations and the surface observations at Tazhong station (83.63° E, 39.03° N) at 0800 BJT on 1 July 2016: (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m.

2254	1400, (c) 1700 and (d) 2000 BJT on 1 July 2016. The profiles of the model output are		删除的内容: Figure 5. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing ratio
2255	averaged over a radius of 3.5 km _y		(dashed line, units: g kg ⁻¹) from the innermost domain of the simulations and the observations from GPS sounding at
2256	Figure 6. Cross-sections along 39.03° N of the horizontal winds (barbs, units: m s ⁻¹) at		Tazhong station (83.63° E, 39.03° N) at (a) 1100, (b) 1400, (c) 1700 and (d) 2000 BJT on 1 July 2016. The profiles of the model output are averaged over a radius of 3.5 km.
2257	intervals of 5 m s ⁻¹ superposed with theta (shaded, units: K) and the vapor mixing ratio	į	删除的内容: Figure 6. Cross-sections along 39.03° N of the
2258	(contours, units: g kg ⁻¹) from the (a) BDY_T1, (c) BDY_T2 and (e) BDY_T3 experiments at		horizontal winds (barbs, units: m s ⁻¹) at intervals of 5 m s ⁻¹ superposed with theta (shaded, units: K) and the vapor
2259	1400 BJT on 1 July 2016 and the (b) BDY_T1, (d) BDY_T2 and (f) BDY_T3 experiments at		mixing ratio (contours, units: g kg ⁻¹) from the (a) BDY_T1, (c) BDY_T2 and (e) BDY_T3 experiments at 1400 BJT on 1
2260	2000 BJT on 1 July 2016 _₹		July 2016 and the (b) BDY_T1, (d) BDY_T2 and (f) BDY_T3 experiments at 2000 BJT on 1 July 2016.
2261	Figure 7. Instantaneous vertical velocity fields (shading: m s ⁻¹) at 3000 m for the (a) BDY T1		带格式的: 字体:11 pt
2262	(CTRL), (b) BDY T2, (c) BDY T3 and (d) Noah experiments at 1400 BJT on 1 July 2016,		删除的内容: Figure 7. Instantaneous vertical velocity fields (shading: m s ⁻¹) at 3000 m for the (a) BDY_T1 (CTRL), (b)
	(4)	$\langle \ \ $	BDY_T2, (c) BDY_T3 and (d) Noah experiments at 1400
2263	Figure 8. Vertical cross-sections of the instantaneous vertical velocity fields (shading: m s ⁻¹)		BJT on 1 July 2016. 带格式的: 字体:11 pt
2264	along A1-A2 in for the (a) BDY_T1 (CTRL), (b) BDY_T2, (c) BDY_T3 and (d) Noah	****	带格式的: 字体:11 pt
2265	experiments at 1400 BJT on 1 July 2016 _x		删除的内容: Figure 8. Vertical cross-sections of the instantaneous vertical velocity fields (shading: m s ⁻¹) along A1–A2 in for the (a) BDY_T1 (CTRL), (b) BDY_T2, (c)
2266	Figure 9. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing		BDY_T3 and (d) Noah experiments at 1400 BJT on 1 July 2016.
2267	ratio (dashed line, units: g kg ⁻¹) for the sensible heat flux sensitivity and Noah land surface	,	带格式的: 字体:11 pt
2268	experiments at (a) 1100, (b) 1400, (c) 1700 and (d) 2000 BJT on 1 July 2016. The profiles of	/	● 带格式的: 字体:11 pt 删除的内容: Figure 9. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing ratio
2269	the model output are averaged over a radius of 3.5 km _*		(dashed line, units: g kg ⁻¹) for the sensible heat flux
2270	Figure 10. Time series of the initial simulated surface variables for the sensible heat		sensitivity and Noah land surface experiments at (a) 1100, (b) 1400, (c) 1700 and (d) 2000 BJT on 1 July 2016. The profiles of the model output are averaged over a radius of 3.5 km.
2271	flux sensitivity and Noah land surface experiments: (a) sensible heat flux; (b) latent		带格式的: 字体:11 pt 带格式的: 字体:12 pt
2272	heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f)		删除的内容: Figure 10. Time series of the initial simulated surface variables for the sensible heat flux sensitivity and 1773
2273	relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m.	1	【
1		26	删除的内容: Figure 1. Simulation domains used in the
2274			ARW model with (a) the terrain height (shaded [174
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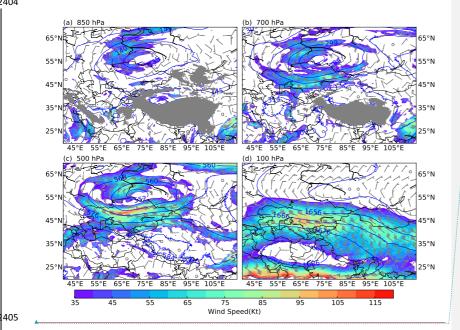


Figure 2 Horizontal distribution of the geopotential height (solid lines, units: da gpm), wind speed (shaded, units: knots) and wind barbs from the NCEP FNL analysis at 0800 BJT on 1 July 2016 at (a) 850 (b) 700 (c) 500 and (d) 100 hPa

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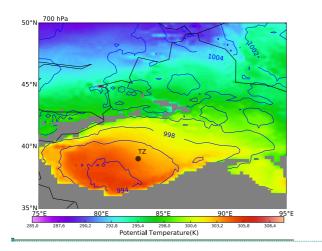


Figure 3. NCEP FNL 700 hPa potential temperature (colors) and mean sea level pressure (white lines) at 0800 BJT on 1 July 2016. The black dot shows the location of Tazhong station in Xingjiang province.

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 50°N 700 hPa

 45°N 45°N 25°E 80°E 85°E 255.0 287.6 290.2 292.8 295.4 298.0 32 Potential Temperature

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[178]

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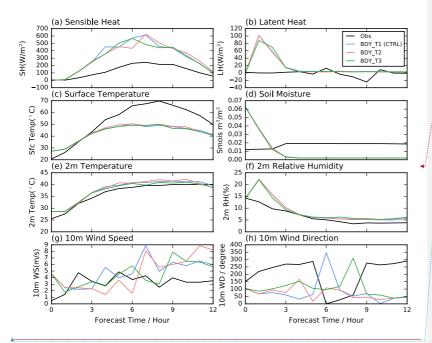


Figure 4. Time series of the initial simulated surface variables from the innermost domain of the simulations and the surface observations at Tazhong station (83.63° E, 39.03° N) at 0800 BJT on 1 July 2016; (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m.

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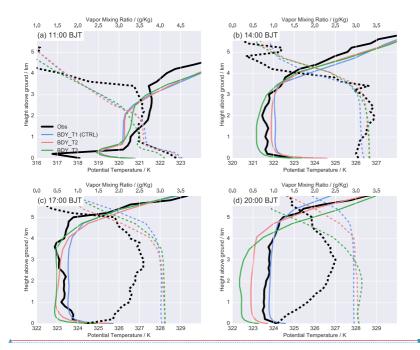
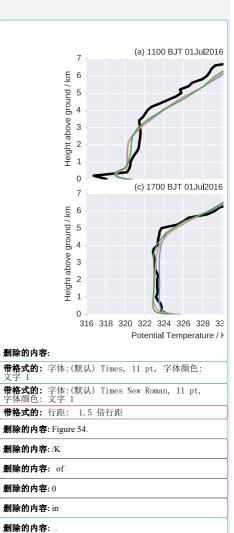


Figure 5. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing ratio (dashed line, units: g, kg⁻¹) from the innermost domain of the simulations and the observations from GPS sounding at Tazhong station (83.63° E, 39.03° N) at (a) 1100, (b) 1400, (c) 1700 and (d) 2000 BJT on J July 2016. The profiles of the model output are averaged over a radius of 3.5 km.



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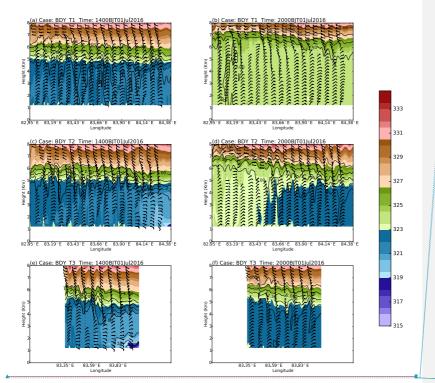
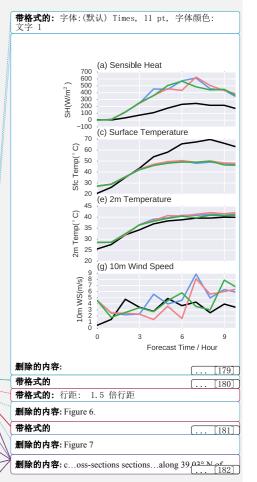
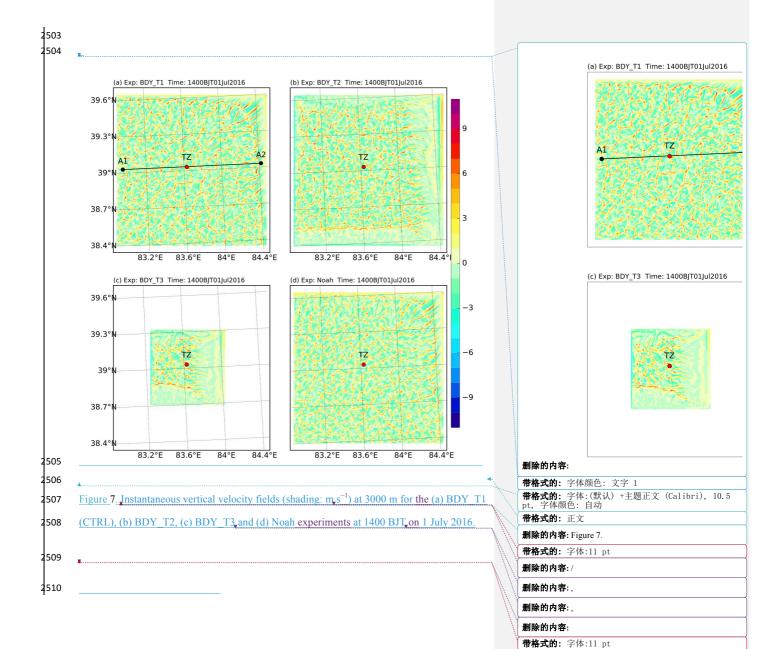
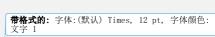


Figure 6. Cross-sections, along 39.03° N of the horizontal winds (barbs, units: m, s⁻¹), at intervals of 5 m s⁻¹, superposed with theta (shaded, units: K) and the vapor mixing ratio (contours, units: g,kg⁻¹), from the (a) BDY_T1, (c) BDY_T2 and (e) BDY_T3 experiments at 1400 BJT on 1 July 2016 and the (b) BDY_T1, (d) BDY_T2 and (f) BDY_T3 experiments at 2000 BJT on 1 July 2016.







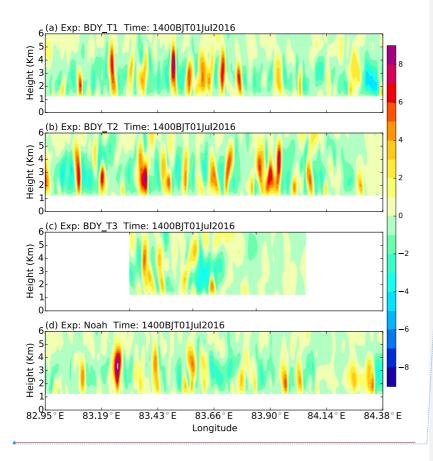


Figure 8. Vertical cross-sections of the instantaneous vertical velocity fields (shading: m, s⁻¹) along A1–A2 in for the (a) BDY T1 (CTRL), (b) BDY T2, (c) BDY T3, and (d) Noah experiments at 1400 BJT, on 1 July 2016.

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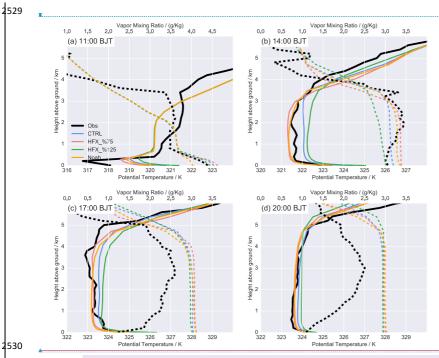


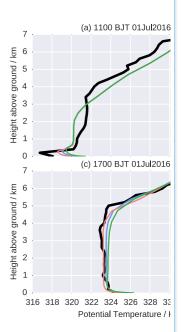
Figure 9. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing ratio (dashed line, units: g kg⁻¹) for the sensible heat flux sensitivity and Noah land surface experiments at (a) 1100, (b) 1400, (c) 1700 and (d) 2000 BJT on 1 July 2016. The profiles of the model output are averaged over a radius of 3.5 km.

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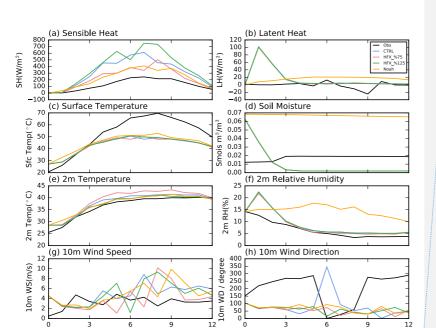


Figure 10. Time series of the initial simulated surface variables for the sensible heat flux sensitivity and Noah land surface experiments: (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m.

Forecast Time / Hour

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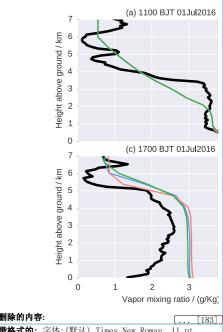
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Experiment	Name	Remarks
1	BDY_T1(CTRL)	LBC of D04 is provided by d03 every one hour with
		403 × 406 model grids
2	BDY_T2	As BDY_T1, but LBC of D04 is provided by d03
		every <u>six</u> hours
<u>3</u>	BDY T3	As BDY T2, but with 205 ×208 model grids
4	HFX %75	As CTRL T2, but with a sensible heat flux of 75%.
<u> </u>	1171 7075	115 CTICE 12, but with a solishole near that of 7570
<u>5</u>	HFX %125	As CTRL T2, but with a sensible heat flux of 125%
		'
<u>6,</u>	Noah	As CTRL T2, but with the Noah Jand surface model

Table 1. List of designed experiments.



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▼	Sensible heat flux		Sensible heat flux Latent heat flux Surface temperatu		emperature	Soil moisture		Temperature at 2		Relative humidity		₩ind speed at 2 m		
							cor	content		<u>m</u>		<u>at 2 m</u>		
	RMSE	BIAS	RMSE	BIAS	RMSE	BIAS	RMSE	BIAS	RMSE	BIAS	RMSE	BIAS	RMSE	BIAS
Experiments														
CTRL	263.636	250.140	12.398	6.674	14.654	- 13.373 √	0.017	- 0.017 √	1.666	1.613	1.220	1.109	2.579	1.864
BDY T2	249.395	240.660	12.383	6.253	14.116	− 12.853	0.017	- 0.017 √	1.912	↓ 1.817 ↓	1.275	1.162	2.943	1.307
BDY T3	241.681	232.705	12.251	6.328	14.929	- 13.737	0.017	-0.017	1.227	1.046	1.483	1.280	2.118	1.287
HFX %75	151.119	134.594	12.544	6.354	14.740	-13.426	0.017	_0.017	3.078	3.016	0.956	0.826	3.335	0.874
HFX %125	357.711	335.556	12.439	6.152	14.244	-13.043	0.017	-0.017	1.026	0.860	1.303	1.231	3.265	2.052
Noah	125.695	120.313	23.350	20.664	12.757	- 11.502	0.048	0.048	1.046	0.983	10.116	9.904	2.788	1.795

Table 2. Summary of the verification of surface and air variables including the integration hours from 3 to 12 h for Tazhong station.

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a reduction(increment) in SH decreases(increases) maximum PBL by roughly 15% over desert.

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WRF land-surface model

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Data

In this study, model simulations compared for 12 hours from the Tazhong field experiment, from 0800 BJT 01 July to 2000 BJT 01 July 2016. The field observation

experiment was held during the month of July 2016 in Tazhong, by the Institute of Desert Meteorology (IDM), Chinese Meteorological Administration (CMA), Urumqi. The main station was located at 86.63°E, 39.03°N. The location is relatively flat with few hills and covered by sand combined with grass (Figure 1), and the 12-h period of our simulation was under a cloudless sky and dry environment. We conducted one way nest WRF from mesoscale(12km) down to LES-scales(0.33km) and compare its results to various instruments including:

- 1) surface fluxes: The eddy correlation system was a R3-50 supersonic anemometer developed by Gill Company, UK, deployed at a height of 10 m. The data acquisition frequency was 20 Hz, and the surface sensible heat flux was calculated by the eddy-covariance method.
- 2) vertical profiles measured using soundings: Upper air soundings of temperature, pressure, humidity, and wind speed and direction were conducted 3-6 times per day with the GPS sounding system developed by No. 23 Institute of China Aerospace Science & Industry Corp. (CASIC23). The sounding times were 01:15, 07:15, 10:15, 13:15, 16:15 and 19:15 respectively.

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One possible minor reason is

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页 14: [104] 删除的内容	Microsoft Office 用户	2018/7/14 AM10:58:00
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页 14: [105] 删除的内容	LucidPapers	2018/6/19 PM2:12:00
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页 15: [108] 删除的内容	LucidPapers	2018/6/19 PM2:14:00
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火 15: [115] 刺除的内含 Lucidrapers 2016/6/19 FMZ:19:00		页 15: [115] 删除的内容	LucidPapers	2018/6/19 PM2:19:00
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页 17: [124] 删除的内容	LucidPapers	2018/6/19 AM10:58:00
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页 17: [134] 删除的内容 Microsoft Office User 201	18/4/7 PM4:34:00
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The results

页 17: [134] 删除的内容 Microsoft Office User 2018/4/7 PM4:34

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页 17: [135] 删除的内容	LucidPapers	2018/6/19 PM2:49:00
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页 18: [136] 删除的内容 Microsoft Office User 2018/4/15 AM9:25:0)
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页 18: [137] 删除的内容	LucidPapers	2018/6/19 PM2:49:00
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页 18: [141] 删除的内容	LucidPapers	2018/6/19 PM2:50:00

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页 18: [142] 删除的内容	LucidPapers	2018/6/19 PM2:50:00
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页 18: [143] 删除的内容	Microsoft Office User	2018/4/15 AM9:26:00

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Figure 10. Time series of the initial simulated surface variables for the sensible heat flux sensitivity and Noah land surface experiments: (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m.

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Figure 1. Simulation domains used in the ARW model with (a) the terrain height (shaded, units:m), (b) the land use categories for domains D03 and D04 and (c) photograph of the area around Tazhong station.

Figure 1 Simulation domains used in ARW model with terrain height (shaded, units:m); (b) land use categories for domain D03 and D04Figure 1 Simulation domains used in

ARW model with terrain height (shaded, units:m); (b) land use categories for domain D03 and D04.

Figure 2. Horizontal distribution of the geopotential height (solid lines, units: da gpm), wind speed (shaded, units: knots) and wind barbs from the NCEP FNL analysis at 0800 BJT on 1 July 2016 at (a) 850, (b) 700, (c) 500 and (d) 100 hPa.Figure 2 Horizontal distribution of geopotential height (solid, units: dagpm), wind speed (shaded, units: knot), and wind barbs from the NCEP FNL analysis at 0800 BJT 1 Jul 2016 at (a) 850 hPa, (c) 700 hPa, (e) 500 hPa, and (d) 100hPa.Figure 2 Horizontal distribution of geopotential height (solid, units: dagpm), wind speed (shaded, units: knot), and wind barbs from the NCEP FNL analysis at 0800 BJT 1 Jul 2016 at (a) 850 hPa, (c) 700 hPa, (e) 500 hPa, and (d) 100hPa.

Figure 3. NCEP FNL 700 hPa potential temperature (colors) and mean sea level pressure (white lines) at 0800 BJT on 1 July 2016. The black dot shows the location of Tazhong station in Xingjiang province. Figure 3 NCEP FNL 700 hPa potential temperature (colors) and mean sea level pressure (white lines) at 0800 BJT 1 Jul 2016. The black dot shows the location of Tazhong station at Xingjiang

province. Figure 3 NCEP fnl 700hPa potential temperature (colors) and mean sea level pressure (white lines) at 0800 BJT 1 Jul 2016. The black dot shows the location of Tazhong station at Xingjiang province.

Figure 4. Time series of the initial simulated surface variables from the innermost domain of the simulations and the surface observations at Tazhong station (83.63° E, 39.03° N) at 0800 BJT on 1 July 2016: (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m.Figure 4 Time series of simulated surface variables from innermost domain of simulations and surface observations at Tazhong station (83.63°E, 39.03°N) initial at 0800 BJT 01July 2016 (a) sensible heat flux (W/m²), (b) latent heat flux(W/m²), (c) 2-m temperature (°C), (d) surface temperature (°C), (e) 2-m Relative Humidity(%) and (f) 10-m wind speed (m/s) with corresponding observations.

Figure 5. Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing ratio (dashed line, units: g kg⁻¹) from the innermost domain of the simulations and the observations from GPS sounding at Tazhong station (83.63° E, 39.03° N) at (a)

1100, (b) 1400, (c) 1700 and (d) 2000 BJT on 1 July 2016. The profiles of the model output are averaged over a radius of 3.5 km. Figure 5 Vertical profiles of potential temperature (solid line, units: K) and vapor mixing ratio(dash line, units: g/Kg) from innermost domain of simulations and observation of GPS sounding at Tazhong station (83.63°E, 39.03°N) at (a)1100 (b) 1400 (c) 1700 (d) 2000 BJT 01 Jul2016 Figure 4 Vertical profiles of potential temperature (units: K) at (a)1100 (b) 1400 (c) 1700 (d) 2000 BJT 01 Jul2016.

Figure 6. Cross-sections along 39.03° N of the horizontal winds (barbs, units: m s⁻¹) at intervals of 5 m s⁻¹ superposed with theta (shaded, units: K) and the vapor mixing ratio (contours, units: g kg⁻¹) from the (a) BDY_T1, (c) BDY_T2 and (e) BDY_T3 experiments at 1400 BJT on 1 July 2016 and the (b) BDY_T1, (d) BDY_T2 and (f) BDY_T3 experiments at 2000 BJT on 1 July 2016. Figure 6 cross sections along 39.03°N of horizontal winds (barbs, units: m/s), at intervals of 5 m/s, superposed with theta (shaded, units: K) and vapor mixing ratio(contour, units: g/Kg), from (a)

BDY_T1, (c) BDY_T2, (e) BDY_T3 experiments at1400 BJT 01JUL2016, (b), (d), (f) are the same as (a), (c), (e), but for 2000 BJT 01JUL2016. Figure 7 cross sections along 39.03°N of horizontal winds (barbs, units: m/s), at intervals of 5 m/s, superposed with theta (shaded, units: K) and vapor mixing ratio(contour, units: g/Kg), from (a) BDY_T1, (c) BDY_T2, (e) BDY_T3 experiments at1400 BJT 01JUL2016, (b), (d), (f) are the same as (a), (c), (e), but for 2000 BJT 01JUL2016.

Figure 7. Instantaneous vertical velocity fields (shading: m s-1) at 3000 m for the (a) BDY_T1 (CTRL), (b) BDY_T2, (c) BDY_T3 and (d) Noah experiments at 1400 BJT on 1 July 2016. Figure 7 Instantaneous vertical velocity fields (shading: m/s) at 3000 m for (a) BDY_T1 (CTRL), (b) BDY_T2, (c) BDY_T3, and (d) Noah at 1400 BJT, 1 July 2016.

Figure 8. Vertical cross-sections of the instantaneous vertical velocity fields (shading: m s⁻¹) along A1–A2 in for the (a) BDY_T1 (CTRL), (b) BDY_T2, (c) BDY_T3 and (d)

Noah experiments at 1400 BJT on 1 July 2016. Figure 8 Vertical cross-section of instantaneous vertical velocity fields (shading: m/s) along A1-A2 in for for (a)

BDY_T1 (CTRL), (b) BDY_T2, (c) BDY_T3, and (d) Noah at 1400 BJT, 1 July 2016.

Figure 9 Vertical profiles of the potential temperature (solid line, units: K) and vapor mixing ratio (dashed line, units: g kg⁻¹) for the sensible heat flux sensitivity and Noah land surface experiments at (a) 1100, (b) 1400, (c) 1700 and (d) 2000 BJT on 1 July 2016.

The profiles of the model output are averaged over a radius of 3.5 km.Figure 9 The same as Figure 5, but for SH flux sensitive and Noah land-surface experimentFigure 8 The same as Figure 4, but for SH flux sensitive experiment.

Figure 10. Time series of the initial simulated surface variables for the sensible heat flux sensitivity and Noah land surface experiments: (a) sensible heat flux; (b) latent heat flux; (c) surface temperature; (d) soil moisture content; (e) temperature at 2 m; (f) relative humidity at 2 m; (g) wind speed at 10 m; and (h) wind direction at 10 m. Figure 10 The same as Figure 4, but for SH flux sensitive and Noah land-surface experiment.

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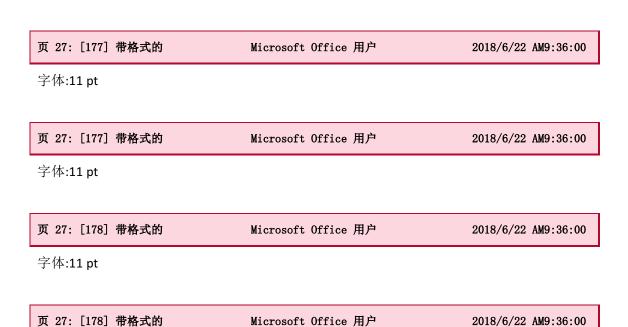
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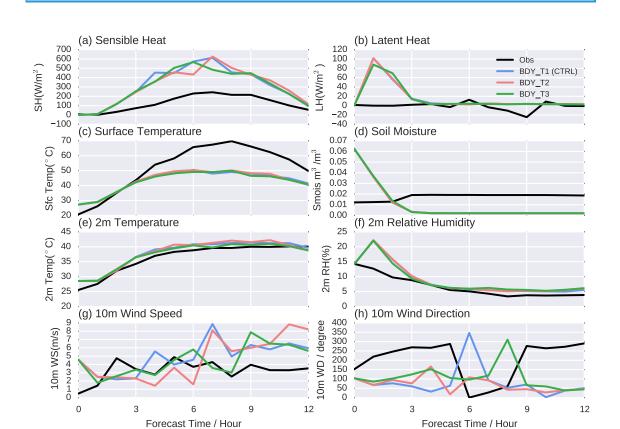
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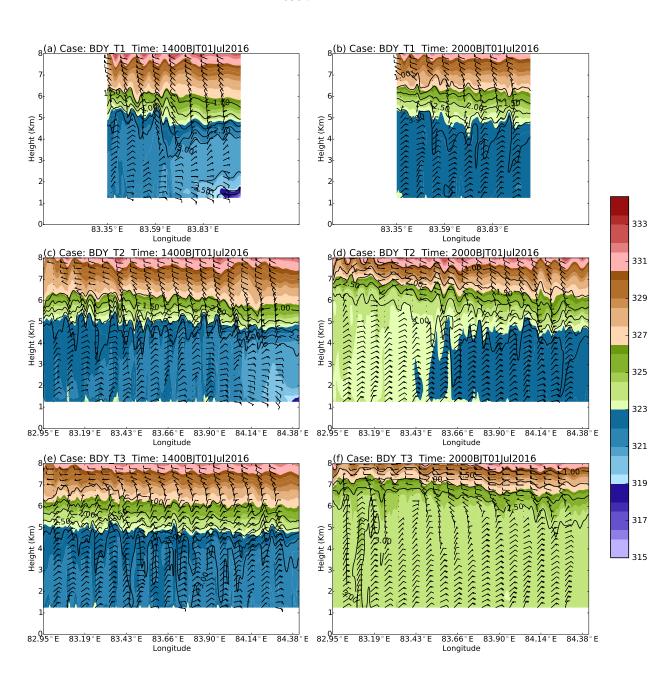
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Figure 6 Time series of simulated surface initial at 0800 BJT 01July 2016 (a) sensible heat

flux (W/m^2) , (b) latent heat flux (W/m^2) , (c) 2-m temperature (°C), (d) surface temperature (°C), (e) 2-m Relative Humidity(%) and (f) 10-m wind speed (m/s) with corresponding observations.

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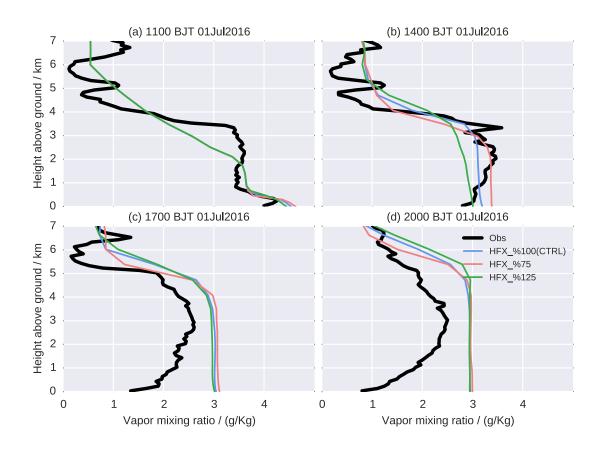


Figure 9 The same as Figure 8, but for vapor mixing ratio (units: g/Kg)

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References