

**Nastavno-naučnom veću
i Dekanu Fizičkog fakulteta
Univerziteta u Beogradu**

Na II sednici Nastavno-naučnog veća Fizičkog fakulteta od 23. novembra 2011. godine određeni smo za članove Komisije za izbor jednog vanrednog profesora u Institutu za meteorologiju Fizičkog fakulteta za užu naučnu oblast Sinoptička meteorologija. Na konkurs raspisan u listu *Poslovi* br. 442 od 07. decembra 2011. godine prijavio se jedan kandidat – prof. dr Lazar Lazić, diplomirani meteorolog, vanredni profesor u Institutu za meteorologiju. Na osnovu priložene i prikupljene dokumentacije, kao i na osnovu ličnog poznavanja stručnih, pedagoških i društvenih kvaliteta kandidata podnosimo Nastavno-naučnom veću sledeći

REFERAT

1. Biografija

Prof. dr Lazar Lazić je rođen 12. juna 1953. godine u Rogačici, Srbija. Gimnaziju je završio 1972. godine u Bajinoj Bašti, kao nosilac specijalnih diploma *Mihailo Petrović-Alas* i *Nikola Tesla*. Diplomirao je na Grupi za meteorologiju PMF u Beogradu 1976. godine, sa nagradom iz Fonda *Borivoje Dobrilović* Svetske meteorološke organizacije za postignut uspeh na studijama. Magistrirao je iz oblasti meteoroloških nauka na Grupi za meteorologiju PMF u Beogradu 1980. godine. Doktorirao je iz oblasti meteoroloških nauka na Grupi za meteorologiju Fizičkog fakulteta u Beogradu 1991. godine. Iste godine dobio je nagradu Svetske meteorološke organizacije iz Fonda *Borivoje Dobrilović* za najbolji naučni rad u prethodne 2 godine.

Što se kretanja u službi tiče od 1977. do 1981. bio je asistent-pripravnik u Institutu za meteorologiju PMF-a u Beogradu. Godine 1981. bio je na odsluženju vojnog roka. Od 1982. do 1991. bio je asistent sa magistraturom u Institutu za meteorologiju PMF-a u Beogradu. Od 1991. je asistent sa doktoratom, a od 1994. je docent u Institutu za meteorologiju Fizičkog fakulteta u Beogradu. Godine 2001. izabran je u zvanje vanrednog profesora na Institutu za meteorologiju Fizičkog fakulteta u Beogradu. Biran je za direktora Instituta za meteorologiju u više mandata, a i sada je na toj funkciji.

2. Nastavna aktivnost

Vežbe iz predmeta: Meteorologija II, Merenja, osmatranja i obrada podataka, Meteorološka merenja, Meteorološke informacije, Klimatologija, Analiza vremena, Analiza vremena II i Prognoza vremena.

Predavanja iz predmeta: Merenja, osmatranja i obrada podataka, Modeliranje atmosfere I, Analiza vremena II, Analiza vremena, Asimilacija podataka, Opšta cirkulacija atmosfere, Vazduhoplovna meteorologija, Modeliranje transporta zagađenja u atmosferi, Prognoza vremena, Meteorologija (za hemičare) i Modelovanje zagađenja u atmosferi (za hemičare).

Udžbenici: *Asimilacija podataka, Prognoza vremena, Analiza vremena* (u postupku recenzije).

Lazić, L., 2010a: *Asimilacija podataka*. RHMZ, Beograd, 146 str.

Lazić, L., 2010b: *Prognoza vremena*. RHMZ, Beograd, 220 str.

Lazić, L., 2012: *Analiza vremena*. RHMZ, Beograd (u postupku recenzije).

Skripte (udžbenici u pripremi): *Opšta cirkulacija atmosfere, Vazduhoplovna meteorologija, Modelovanje zagađenja u atmosferi* (za hemičare).

Rukovođenje diplomskim, magistarskim, master i doktorskim radovima: 50 diplomskih, 4 magistarska, 1 master.

Ocene studenata: Između 4,60 i 5,00.

3. Naučna aktivnost

Profesionalni interes dr Lazara Lazića je *numeričko modeliranje atmosfere*, sa primenom na ekstremnim nepogodama u atmosferi: intenzivnom mlaznom strujom, zavetrenim ciklogenezama, tropskim ciklonima, olujnim vetrovima burom i košavom, kao i transportom ekstremnih zagađenja kroz atmosferu i energijom vetra. Bavi se i metodima inicijalizacije i unapređenja modela atmosfere.

3.1 Publikacije

Bibliografski spisak naučno-istraživačkih aktivnosti dr Lazara Lazića broji ukupno 116 naslova. Publikovao je 16 radova u vodećim međunarodnim naučnim časopisima, 14 radova u ostalim međunarodnim časopisima, koautor je monografije Svetske meteorološke organizacije, autor je poglavlja u dve međunarodne monografije o modeliranju polja strujanja i transporta zagađujućih materija kroz atmosferu, prezentovao je 21 rad po pozivu na međunarodnim konferencijama, radnim sastancima i seminarima, 53 rada na međunarodnim konferencijama, objavio je 1 rad u domaćem časopisu sa recenzijom, 3 rada na domaćim konferencijama i seminarima i 5 stručnih izveštaja.

3.2 Učešće na naučnim projektima i međunarodna saradnja

Prof. Lazar Lazić je imao i veći broj međunarodnih naučnih i stručnih poseta poznatim meteorološkim i univerzitetskim centrima, kao i učešće u međunarodnom osmatračkom eksperimentu na istraživačkom brodu u okviru Prvog globalnog geofizičkog eksperimenta Programa istraživanja globalnih atmosferskih procesa Svetske meteorološke organizacije.

Rukovodi na dva međunarodna projekta: *Priroda i teorija olujnih bura* (Američka fondacija N.S.F.) i *Eureka/Eurotrak 2* sa temom *Application of Synoptic/MesoScale Eta Model in Long Range Transport Processes*. Obavlja sekretarske poslove na domaćem projektu kod SANU *Numerička simulacija vremena i klime u Srbiji*. Učestvuje na projektima Ministarstva za nauku Srbije pod nazivima: *Meteorološka istraživanja, Prognoza vremena i klime, Prognoza vremena i klime u Srbiji, Meteorološki ekstremi i klimatske promene u Srbiji*.

Angažovan je kao recenzent u više vodećih međunarodnih časopisa.

4. Pregled naučnih rezultata

Profesionalni interes dr Lazara Lazića je *numeričko modeliranje atmosfere*, sa primenom na ekstremnim nepogodama u atmosferi: intenzivnom mlaznom strujom, zavetrenim ciklogenezama, tropskim ciklonima, olujnim vetrovima burom i košavom, kao i transportom ekstremnih zagađenja kroz atmosferu i energijom vetra. Bavi se i metodima inicijalizacije modela atmosfere.

4.1 Intenzivna mlazna struja (Radovi: A.1, F.1)

Proučavaju se problemi koji nastaju pri modeliranju intenzivne mlazne struje, a vezani su sa problemom "nestabilnosti nepotiranja". Ovaj problem se javlja kod sheme za horizontalnu advekciju momenta količine kretanja u modelu Evropskog centra za srednjoročnu prognozu vremena, a ogleda se u nepotiranju određenih članova u konačnim razlikama. Nestabilnost se manifestuje pri jakoj mlaznoj struji koja se tokom integracije raspada sa istovremenim porastom energije kraćih talasa. Nađen je minimalan podsistem u advektivnim članovima jednačine kretanja koji sadrži "nestabilnost nepotiranja". Istestirane su alternativne sheme koje sa realnim podacima ne manifestuju pomenutu nestabilnost čak ni tokom 5-dnevnih integracija.

4.2 Zavetrene ciklogeneze (Radovi: A.3, A.17, C.2.1, C.2.3, C.2.9, C.2.12)

Numerički se simuliraju veoma česte zavetrene ciklogeneze iza planina Altai-Sajen u Istočnoj Aziji, kao i denovske ciklogeneze koje se javljaju u zavetrini Alpa. Ciklogeneza je posledica različitog definisanja orografije u numeričkom modelu. Zavetrene ciklogeneze bolje prognoziraju stepenastim (blokirajućim) predstavljanjem orografije u numeričkom modelu od klasičnog obvojnog načina predstavljanja orografije.

4.3 Tropski cikloni (Radovi: A.2, A.4, A.5, A.18, A.19, A.20, A.21, A.22, C.1.8, C.2.5, C.2.6, C.2.7, C.2.8, C.2.10, C.2.13, C.2.14, C.2.18, C.2.19, C.2.22, C.2.23, F.2)

Numerički se simuliraju tropski cikloni koji su registrovani u Australijskom monsunskom eksperimentu (AMEX). Četiri tropska ciklona koja su se pojavila tokom eksperimenta su uspešno simulirana/prognozirana Eta modelom. Veoma važan problem u analizi vremena je definisanje početnih uslova za numeričku prognozu vremena. Taj problem je naročito karakterističan kod tropskih ciklona i ogleda se u ispravnom pozicioniranju početnog vrtloga od koga se dalje nastavlja numerička prognoza. Urađene su sheme da bi se prevazišao problem neispravnog lociranja

početnog vrtloga, a predložena je i originalna shema za dinamičko podešavanje vrtloga. Ispitana je osetljivost ponašanja tropskih ciklona na ključne parametre u numeričkom modelu, kao i na ključne parametre koji su značajni za nastanak, strukturu i kretanje tropskih ciklona.

4.4 Olujni vetrovi bura i košava (Radovi: A.6, A.7, A.8, A.23, A.24, C.2.17, C.2.20, C.2.24, C.2.25 C.2.42)

Numerički se simuliraju lokalni vetrovi bura i košava Eta modelom sa realnim podacima. Izučava se uticaj orografije na trajektorije delića vazduha koji pripadaju ovim vetrovima. Analizirane su trodimenzionalne trajektorije dobijene pri različitim oblicima i visinama orografije. Ostvareno je poboljšanje simulacije vetra bure korišćenjem tehnike umetnutog modela. Eta model se koristi i kao osnovni model sa grubljim razlaganjem i kao umetnuti model sa finijim razlaganjem. Za definisanje bočnih graničnih uslova računata su "podzemne" vrednosti prognostičkih promenljivih. Pokazale su se dobre modelove osobine u primeni tehnike umetanja modela da simulira pojave mezo razmera uzrokovane orografijom. Ispitana je osetljivost trajektorija na učestanost podataka o vetru, koristeći slučajeve bure i košave. Pokaže se da je zadovoljavajuća tačnost trajektorija sa vremenskim korakom podataka o vetru do 1 sata, dok tačnost potom opada sa smanjenjem učestanosti tih podataka. Trajektorije koje se dobiju korišćenjem podataka na svakih 12 sati, kao u slučaju kada se koriste podaci iz osmatranja za računanje trajektorija, su sasvim nezadovoljavajuće. Rezultat je i da su trajektorije bure osetljivije na učestanost podataka o vetru od trajektorija košave.

4.5 Ekstremna zagađenja atmosfere (Radovi: A.10, A.11, A.12, A.14, A.24, A.25, A.26, A.27, A.28, B.3, C.2.28, C.2.30, C.2.32, C.2.33, C.2.34, C.2.35, C.2.36, C.2.37, C.2.38, C.2.39, C.2.40, C.2.43, C.2.46, C.2.47, C.2.48, D.1)

Numerički se računa regionalni transport zagađenja od bombardovanja brojnih industrijskih postrojenja u Srbiji 1999. godine. Korišćenjem trajektorija dobijenih Eta modelom u slučajevima gotovo simultanog bombardovanja industrijskih objekata u Novom Sadu i Pančevu potvrđeni su rezultati merenja u Ksantiju u Grčkoj. To zagađenje je transportovano strujanjem na visini od oko 1500 m. U isto vreme zagađenje sa visine od oko 3000 m je transportovano ka Bugarskoj, Rumuniji, Ukrajini, Moldaviji i Crnom moru. Analiza broja dana sa padavinama u Srbiji tokom aprila 1999. godine je da je najveći broj dana sa padavinama većim od 0,1 mm zabeležen je u široj okolini Beograda kao i u centralnoj i jugoistočnoj Srbiji. Analiziran je i slučaj transporta peska iz Sahare u Beograd Eta modelom. Zbog ciklonske cirkulacije prašina iz severne Afrike je podignuta i transportovana preko Mediterana što je imalo za posledicu povećanu depoziciju Pb i Cd u Beogradu. Istovremeno, prema analizi najnižih trajektorija, potvrđen je transport teških metala iz Makedonije i južne Srbije košavskim vetrom.

4.6 Energija vetra (Radovi: A.15, C.2.49, C.2.51)

Dugotrajnim numeričkim integracijama Eta modelom, pri različitim razlaganjima, prognozirani su vetar za potrebe turbina u Skandinaviji. Paralelno su

vršena i merenja vetra na stubu turbine raznim visinama sa ciljem verifikacije dobijenih vrednosti modelom. Dobijeni su zadovoljavajući i ohrabrujući rezultati.

4.7 Metodi inicijalizacije i unapređenja modela atmosfere (Radovi: A.7, A.8, A.13, A.16, A.29, C.1.18, C.1.19, C.1.20, C.2.31, C.2.41, C.2.44, C.2.52)

Razvijena je i istestirana shema za usklađivanje početnih podataka, odnosno shema za "inicijalizaciju", u Eta modelu. Korišćena je iterativna Ojlerova unatrag shema (super-Matsunova shema) umesto standardne ekonomično-eksplicitne unapred-unatrag sheme za članove podešavanja u Eta modelu, kao filter tokom prvog sata integracije. Nakon toga integracija se nastavlja normalno. Učinjene su naprednije popravke ove sheme u smislu integracije modela najpre jedan sat unazad pa potom unapred. Paralelno sa primenom modela redovno se događa da je neophodno i unaprediti odgovarajuće module modela. Rađeno je na raznim unapređenjima u numeričkom Eta modelu.

4.A Pregled pojedinačnih radova

U radu A.1 (*Non-cancellation instability in horizontal advection schemes for momentum equations*) se razmatra problem "nestabilnosti nepotiranja" koji se javlja kod sheme za horizontalnu advekciju momenta količine kretanja u modelu Evropskog centra za srednjoročnu prognozu vremena. Nestabilnost se manifestuje pri jakoj mlaznoj struji koja se tokom integracije raspada sa istovremenim porastom energije kraćih talasa. Nađen je minimalan podsistem u advektivnim članovima jednačine kretanja koji sadrži "nestabilnost nepotiranja". Istestirane su alternativne sheme koje sa realnim podacima ne manifestuju pomenutu nestabilnost čak ni tokom 5-dnevnih integracija.

Rad A.2 (*Forecasts of AMEX tropical cyclones with a step-mountain model*) poklanja pažnju numeričkim prognozama tropskih ciklona uopšte, a posebno onim koji su registrovani u intenzivnim osmatranjima u toku Australijskog monsunskog eksperimenta (AMEX). Četiri tropska ciklona koja su se pojavila tokom eksperimenta su uspešno prognozirana Eta modelom. Rezultati ovih istraživanja su prikazani u posebnom dokumentu Svetske meteorološke organizacije o nekim važnim naučnim istraživanjima u tropskoj meteorologiji od strane predsednika Radne grupe za tropsku meteorologiju Komisije za atmosferska istraživanja Svetske meteorološke organizacije. Za ovaj rad kandidat je 1991. godine dobio nagradu Svetske meteorološke organizacije iz Fonda "Borivoje Dobrilović" za najbolji naučni rad u Jugoslaviji u prethodne 2 godine.

Rad A.3 (*Numerical case study of Altai-Sayan lee cyclogenesis over East Asia*) se bavi problemom veoma čestih zavetrenih ciklogeneza iza planina Altai-Sajen u Istočnoj Aziji. Ove ciklogeneze su veoma slične denovskoj ciklogenezi koja se javlja u zavetrini Alpa. U radu se analizira ciklogeneza kao posledica različitog definisanja orografije u numeričkom modelu. Pokazuje se da se zavetrene ciklogeneze bolje prognoziraju stepenastim (blokirajućim) predstavljanjem orografije u numeričkom modelu od klasičnog obvojnog načina predstavljanja orografije.

Rad A.4 (*Eta Model forecasts of tropical cyclones from Australian Monsoon Experiment: Dynamical adjustment of initial conditions*) je nastavak kandidatovog bavljenja numeričkim prognozama tropskih ciklona. U ovom radu se razmatra veoma

važan problem u analizi vremena, a to je definisanje početnih uslova za numeričku prognozu vremena. Taj problem je naročito karakterističan kod tropskih ciklona i ogleda se u ispravnom pozicioniranju početnog vrtloga od koga se dalje nastavlja numerička prognoza. U radu su prikazane sheme i tehnike koje se uobičajeno koriste da bi se prevazišao problem neispravnog lociranja početnog vrtloga, a predložena je i originalna shema za dinamičko podešavanje vrtloga. Prikazani su i rezultati u slučaju tropskih ciklona iz Australijskog monsuskog eksperimenta.

U radu A.5 (*Eta Model forecasts of tropical cyclones from Australian Monsoon Experiment: The model sensitivity*) se ispituje osetljivost ponašanja tropskih ciklona na ključne parametre u numeričkom modelu, kao i na ključne parametre koji su značajni za nastanak, strukturu i kretanje tropskih ciklona. Utvrđeno je da su najznačajniji parametri u prognoziranju tropskih ciklona upravo oni koji su sadržani u fizičkom paketu numeričkog modela. Takođe su upoređene raspoložive numeričke prognoze tropskih ciklona iz Australijskog monsuskog eksperimenta koje su dobijene u poznatim svetskim meteorološkim centrima. Rezultati koje je kandidat dobio u svojim istraživanjima pokazuju smanjenje greške u poređenju sa ostalim raspoloživim rezultatima.

U radu A.6 (*A real data simulation of the Adriatic bora and the impact of mountain height on bora trajectories*) se prikazuje simulacija bure Eta modelom sa realnim podacima, kao i uticaj orografije na trajektorije bure. Urađeni su numerički eksperimenti sa različitim visinama i oblicima orografije u oblasti gde se javlja bura. Ovo je motivisano indikacijama iz osmatranja i teoretskim očekivanjima da se olujni vetrovi tipa bure javljaju samo pri određenim visinama orografije. Analizirane su trodimenzione trajektorije dobijene pri različitim oblicima i visinama orografije. Maksimalne brzine vetra bure dobijene su kako je i očekivano u trodimenzionim kanalima sa stepenastom prezentacijom orografije pri određenoj visini orografije. Dobijeni rezultati su u saglasnosti sa činjenicama iz osmatranja da je neophodna visina planinske prepreke za pojavu olujnog vetra bure od oko 1000 m.

Rad A.7 (*Improved bora simulation using a Nested Eta Model*) pokazuje poboljšanje simulacije vetra bure korišćenjem tehnike umetnutog modela. Eta model je korišćen i kao osnovni model sa grubljim razlaganjem i kao umetnuti model sa finijim razlaganjem. Za definisanje bočnih graničnih uslova računane su "podzemne" vrednosti prognostičkih promenljivih. Ove vrednosti su dobijene horizontalnom interpolacijom iz eta slojeva iz atmosfere. Simulacije su urađene korišćenjem realnih podataka sa olujnim vetrom burom. Cilj rada je da istakne dobre modelove osobine u primeni tehnike umetanja modela da simulira pojave mezo razmera uzrokovane orografijom. Poboljšanja su verifikovana na primeru padavina i trodimenzionih trajektorija.

U radu A.8 (*"Initialization" using an iterative Matsuno style scheme in the Eta Model adjustment stage*) je razvijena i istestirana shema za usklađivanje početnih podataka, odnosno shema za "inicijalizaciju", u Eta modelu. Korišćena je iterativna Ojlerova unatrag shema (super-Matsunova shema) umesto standardne ekonomično-eksplicitne unapred-unatrag sheme za članove podešavanja u Eta modelu, kao filter tokom prvog sata integracije. Nakon toga integracija se nastavlja normalno. Pokazalo se da super-Matsunova shema već tokom prvih 6 vremenskih koraka u velikoj meri uskladi polja, dok je u kontrolnom slučaju za ovo bilo potrebno oko 60 koraka. Usklađenost je merena srednjom apsolutnom tendencijom prizemnog pritiska. Posmatrana je i vertikalna brzina na 500 mb i tendencije prizemnog pritiska.

U radu A.9 (*Sensitivity of forecast trajectories in strong local winds to the wind data frequency*) ispitana je osetljivost trajektorija na učestanost podataka o vetru, koristeći slučajeve bure i košave. Pokaže se da je zadovoljavajuća tačnost trajektorija sa vremenskim korakom podataka o vetru do 1 sata, dok tačnost potom opada sa smanjenjem učestanosti tih podataka. Trajektorije koje se dobiju korišćenjem podataka na svakih 12 sati, kao u slučaju kada se koriste podaci iz osmatranja za računanje trajektorija, su sasvim nezadovoljavajuće. Još jedan rezultat je da su trajektorije bure osetljivije na učestanost podataka o vetru od trajektorija košave. Razlika je posledica različite prirode ovih vetrova: košava je niska mlazna struja, kanalisana orografijom, dok je bura slapovit, padajući vetar. Ustanovljeno je, zatim, da se smanjenjem učestanosti smanjuju i maksimalne brzine vetra duž trajektorija. Da bi se to sve videlo računata je srednja apsolutna i srednja relativna greška. Greške su posmatrane posebno za učestanost podataka o horizontalnom, i o vertikalnom kretanju; ovo je ukazalo na veći značaj učestanosti podataka o vertikalnom kretanju

U radu A.10 (*Regional air pollution caused by a simultaneous destruction of major industrial sources in a war zone. The case of Serbia in April 1999*) se razmatra regionalni transport zagađenja od bombardovanja brojnih industrijskih postrojenja u Srbiji 1999. godine. U atmosferi su se našli mnogi hemijski zagađivači, uključujući i persistentna organska zagađenja. U radu se razmatraju dve epizode zagađenja: (a) 6-8 April; i (b) 18-20 april. U načnoj literaturi je objavljeno da su u Ksantiju u Grčkoj detektovana neka od ovih zagađenja u obliku finih aerosola, ali se nije znalo njihovo poreklo. Korišćenjem trajektorija dobijenih Eta modelom u slučajevima gotovo simultanog bombardovanja industrijskih objekata u Novom Sadu i Pančevu potvrđeni su rezultati merenja u Ksantiju. To zagađenje je transportovano strujanjem na visini od oko 1500 m. U isto vreme zagađenje sa visine od oko 3000 m je transportovano ka Bugarskoj, Rumuniji, Ukrajini, Moldaviji i Crnom moru. Trajektorije sa nižih visina, ispod 1000 m pokazuju da se zagađenje na tim visinama transportovalo ka Beogradu u prvih 12 h. U radu je pokazano da se ispiranje persistentnih organskih zagađenja iz atmosfere uz pomoć padavina naročito događalo u centralnoj i jugo-istočnoj Srbiji tokom druge epizode.

U radu A.11 (*Effects of Uncontrolled Particulate Matter Release on Precipitation Under Warfare Conditions*) data je analiza broja dana sa padavinama u aprilu 1999. godine izmerenih na 30 meteoroloških stanica u Srbiji i njihovo poređenje sa brojem dana registrovanim u periodu 1961-1990. godine kao posledicu bombardovanja. Najveće bombardovanje hemijske industrije, rafinerija i stovarišta nafte u Srbiji tokom aprila 1999. godine imalo je za posledicu emisiju kancerogenih i toksičnih supstanci u atmosferu. Najveći broj dana sa padavinama većim od 0,1 mm zabeležen je u široj okolini Beograda kao i u centralnoj i jugoistočnoj Srbiji.

U radu A.12 (*Analysis of Saharan Dust Regional Transport*) je analiziran slučaj transporta peska iz Sahare u Beograd u periodu od 14. do 17. aprila 1994. godine primenom Eta modela. Zbog ciklonske cirkulacije prašina iz severne Afrike je podignuta i transportovana preko Mediterana što je imalo za posledicu povećanu depoziciju Pb i Cd u Beogradu. Istovremeno, prema analizi najnižih trajektorija, potvrđen je transport teških metala iz Makedonije i južne Srbije košavskim vetrom.

U radu A.13 (*Initialization of the Eta Model using a backward-first version of the iterative Matsuno style scheme*) je unapređena ranije razvijena shema za usklađivanje početnih podataka (A.8), odnosno shema za "inicijalizaciju", u Eta

modelu. Korišćena je iterativna Ojlerova unatrag shema (super-Matsunova shema) za sve procese u modelu sa integracijom najpre 1 sat unazad (sa isključenom difuzijom i padavinama), a odmah potom i 1 sat unapred sa kompletnim modelom. Nova shema je realističnija u smislu da se integracija modela sa inicijalizovanim početnim uslovima odvija od samog početka.

U radu A.14 (*Determination of O_3 , NO_2 , SO_2 , CO and PM_{10} measured in Belgrade urban area*) se posmatra raspodela zagađenja u Beogradu pri realnim meteorološkim uslovima. Modelirano je zagađenje O_3 , NO_2 , SO_2 , CO i PM_{10} pomoću modela atmosfere i trajektorija njegovog transporta.

U radu A.15 (*Wind forecasts for wind power generation using the Eta model*) su istestirane mogućnosti Eta modela da prognozira energiju vetra za potrebe vetro-generatora struje u Skandinaviji. Dugotrajnim poređenjem rezultata prognoza sa osmatranjima na stubu sa anemomerima na različitim visinama došlo se do visokih nivoa korelacije.

U radu A.16 (*An upgraded version of the Eta model*) se prikazana unapređenja u modelu koja su ostvarena poslednjih godina. Unapređenja modela su istestirana u različitim uslovima po svetu gde god da se model koristi. Testovima je pokazano da su unapređenja dala očekivana poboljšanja u modelu.

5. Spisak publikacija

A. Radovi u međunarodnim časopisima

Radovi u vodećim međunarodnim časopisima

- A.1 Lazić, L., Z. Janjić and F. Mesinger, 1986: Non-cancellation instability in horizontal advection schemes for momentum equations. *Meteorology and Atmospheric Physics*, **35**, 49-52. [IF: 0,673]
- A.2 Lazić, L., 1990: Forecasts of AMEX tropical cyclones with a step-mountain model. *Australian Meteorological Magazine*, **38**, 207-216. [IF: 0,818]
- A.3 Shou-Jun C. and L. Lazić, 1990: Numerical Case Study of Altai-Sayan Lee Cyclogenesis over East Asia. *Meteorology and Atmospheric Physics*, **42**, 221-229. [IF: 0,673]
- A.4 Lazić, L., 1993: Eta Model forecasts of tropical cyclones from Australian Monsoon Experiment: Dynamical adjustment of initial conditions. *Meteorology and Atmospheric Physics*, Vol. **52**, No. 3-4, 101-111. [IF: 0,673]
- A.5 Lazić, L., 1993: Eta Model forecasts of tropical cyclones from Australian Monsoon Experiment: The model sensitivity. *Meteorology and Atmospheric Physics*, Vol. **52**, No. 3-4, 113-127. [IF: 0,673]
- A.6 Lazić, L. and I. Tošić, 1998: A Real Data Simulation of the Adriatic Bora and the Impact of Mountain Height on Bora Trajectories. *Meteorology and Atmospheric Physics*, Vol. **66**, No. 3-4, 143-155. [IF: 0,737]
- A.7 Tošić, I. and L. Lazić, 1998: Improved Bora Simulation Using a Nested Eta Model. *Meteorology and Atmospheric Physics*, Vol. **66**, No. 1-2, 1-10. [IF: 0,737]

- A.8 Lazić, L., 2000: "Initialization" using an iterative Matsuno style scheme in the Eta Model adjustment stage. *Meteorology and Atmospheric Physics*, **75**, 121-130. [IF: 0,887]
- A.9 Lazić, L. and I. Tošić, 2000: Sensitivity of forecast trajectories in strong local winds to the wind data frequency. *Idojaras*, **104**, 91-107. [IF: 0,548]
- A.10 Vukmirović, Z., M. Unkašević, L. Lazić, and I. Tošić, 2001: Regional air pollution caused by a simultaneous destruction of major industrial sources in a war zone. The case of Serbia in April 1999. *Atmospheric Environment*. **35/15**, 2773-2782. [IF: 2,317]
- A.11 Unkašević, M., Z. Vukmirović, I. Tošić and L. Lazić, 2003: Effects of Uncontrolled Particulate Matter Release on Precipitation Under Warfare Conditions. *Environmental Science and Pollution Research, (ESPR)* - Vol. **10**, No. 2, 89-97. [IF: 1,518]
Online verzija na: <http://dx.doi.org/10.1065/espr2002.02.112> .
- A.12 Vukmirović, Z., M. Unkašević, L. Lazić, I. Tošić, S. Rajšić and M. Tasić, 2004: Analysis of Saharan Dust Regional Transport. *Meteorology and Atmospheric Physics*, **85**, 265-273. [IF: 1,156]
Adresa rada na internetu:
http://www.springerlink.com/media/dlthe6a57fug9b7ye0/contributions/e/0/1/6/E0L66PNHVLAGRMW4.html/BodyRef/PDF/703_2003_Article_010.pdf
Publisher: Springer-Verlag Wien, ISSN: 0177-7971,
DOI: 10.1007/s00703-003-0010-6. Issue: Online First
- A.13 Lazić, L., 2008: Initialization of the Eta Model using a backward-first version of the iterative Matsuno style scheme. *Meteorology and Atmospheric Physics*, **99**, 247-256. [IF: 1,149]
ISSN 0177-7971 (Print) 1436-5065 (Online) Online first – DOI 10.1007/s00703-007-0280-5
Web: <http://dx.doi.org/10.1007/s00703-007-0280-5>
<http://www.springerlink.com/content/7370845472821862/>
- A.14 Marković D.M., D.A. Marković, A. Jovanović, L. Lazić and Z. Mijić, 2008: Determination of O₃, NO₂, SO₂, CO and PM₁₀ measured in Belgrade urban area. *Environmental Monitoring and Assessment*. **145**, 349–359. [IF: 1,436]
Publisher Springer Netherlands ISSN 0167-6369 (Print) 1573-2959 (Online). Online first - DOI: 10.1007/s10661-007-0044-1 Web:
<http://www.springerlink.com/content/7359qm785k303704/>
- A.15 Lazić, L., G. Pejanović and M. Živković, 2010: Wind forecasts for wind power generation using the Eta model. *Renewable Energy*. **35** 1236–1243. [IF: 2,580]
doi:10.1016/j.renene.2009.10.028 Online verzija na:
<http://dx.doi.org/10.1016/j.renene.2009.10.028>
- A.16 Mesinger, F., S.C. Chou, J.L. Gomes, D. Jović, P. Bastos, J.F. Bustamante, L. Lazić, A.A. Lyra, S. Morelli, I. Ristić, 2012: An upgraded version of the Eta model. *Meteorology and Atmospheric Physics*, **xx**, xx-xx (u štampi). [IF: 0,921]

Radovi u ostalim međunarodnim časopisima

- A.17 Lazić, L. and C. Shou-Jun, 1989: Numerical simulation of the Altai-Sayan lee cyclogenesis over East Asia by a step-mountain model. *Research Activities in Atmospheric and Oceanic Modelling*, **13**, 5.18-5.19.
- A.18 Lazić, L., 1989: Forecasts of AMEX tropical cyclones by the UB/NMC eta model. *Research Activities in Atmospheric and Oceanic Modelling*, **13**, 5.40-5.41.
- A.19 Lazić, L., 1989: The UB/NMC model sensitivity in predicting the tropical cyclones. *Research Activities in Atmospheric and Oceanic Modelling*, **13**, 5.42-5.43.
- A.20 Lazić, L., 1992: Dynamical forcing of initial vortex in tropical cyclones. *Research Activities in Atmospheric and Oceanic Modelling*, **17**, 5.15-5.16.
- A.21 Lazić, L., 1992: Small scale energy of tropical cyclones. *Research Activities in Atmospheric and Oceanic Modelling*, **17**, 5.17-5.18
- A.22 Lazić, L., 1992: Intercomparison study of AMEX tropical cyclone forecasts. *Research Activities in Atmospheric and Oceanic Modelling*, **17**, 5.20-5.21
- A.23 Lazić, L., and I. Saulačić, 1994: A Eta Model based trajectory calculations for the strong local bora wind. *Research Activities in Atmospheric and Oceanic Modelling*, **19**, 5.19 - 5.20.
- A.24 Lazić, L. and I. Tošić, 1996: Diagnostics along the Eta Model based trajectories of the local bora wind. *Research Activities in Atmospheric and Oceanic Modelling*, 5.19-5.20.
- A.25 Vukmirović, Z., L. Lazić, I. Tošić and M. Unkašević, 2000: Regional air pollution during NATO campaign in Yugoslavia. *Journal of Environmental Protection and Ecology*, Special Issue, pp. 136-145.
- A.26 Unkašević, M., L. Lazić, I. Tošić and Z. Vukmirović, 2001: Monitoring of cloud and precipitation during air pollution transport in warfare episode in Serbia. *Journal of Environmental Protection and Ecology*, Vol. **2**, No. 2, pp. 331-337.
- A.27 Vukmirović, Z., L. Lazić, I. Tošić, M. Unkašević, 2001: Editor(s): Gryning, SE; Schiermeier, FA Title: Regional air pollution originating from oil-refinery fires under war conditions Source: *Air Pollution Modeling and its Application XIV*: 741-742 Conference Title: 24th NATO/CCMS International Technical Meeting on Air Pollution Modelling and Its Application Conference Date: MAY 15-19, 2000 Conference Location: BOULDER, CO ISBN: 0-306-46534-5
- A.28 Unkašević, M., L. Lazić, I. Tošić and Z. Vukmirović, 2001: Effects of soot and aerosol emission on local climate under warfare condition in Serbia *Journal of Environmental Protection and Ecology*, Vol. **2**, No. 4, 788-794.
- A.29 Lazić, L., 2004: A comparison of super-Matsuno scheme and digital filtering initializations in the Eta Model. *Research Activities in Atmospheric and Oceanic Modelling*, **34**, 3.13-3.14. <http://www.cmc.ec.gc.ca/rpn/wgne/>

- A.30 Mesinger F. and L. Lazić, 2004: Water vapor sources and sinks, and hydrometeor loading in the Eta Model. *Research Activities in Atmospheric and Oceanic Modelling*, **34**, 5.21-5.22. <http://www.cmc.ec.gc.ca/rpn/wgne/>

B. Monografije, udžbenici, pomoćni udžbenici

- B.1 Lazić, L. and B. Telenta, 1990: Documentation of the UB/NMC (University of Belgrade and National Meteorological Centre, Washington) Eta Model. Tropical Meteorology Research Programme, World Meteorological Organization, Geneva, WMO/TD-No. 366, pp. 304.
- B.2 Lazić, L., 1996: The UB/NMC eta model. In book: Modelling of the Atmospheric Flow Fields. Editors: D. P. Lalas and C. F. Ratto, *World Scientific Publishing Co.*, 541- 561. <http://www.worldscibooks.com/environsci/2975.html>
- B.3 Tasić, M., S. Rajšić, M. Tomašević, Z. Mijić, M. Aničić, V. Novaković, D.M. Marković, D.A. Marković, L. Lazić, M. Radenković, J. Joksić, 2008: Assessment of Air Quality in an Urban Area of Belgrade, Serbia, In: Environmental Technologies, New Developments, Edited by E. Burcu Ozkaraova Gungor, I-Tech Education and Publishing, Vienna, Austria, www.i-techonline.com, ISBN 978-3-902613-10-3, 209-244. http://intechweb.org/books.php?pageNum_bookbyid=1&totalRows_bookbyid=80&PHPSESSID=tc5r7gk0tjnsj4h0e126hp5q82&PHPSESSID=tc5r7gk0tjnsj4h0e126hp5q82
- B.4 Lazić, L., 2010a: *Asimilacija podataka*. RHMZ, Beograd, 146 str.
- B.5 Lazić, L., 2010b: *Prognoza vremena*. RHMZ, Beograd, 220 str.
- B.6 Lazić, L., 2012: *Analiza vremena*. RHMZ, Beograd, (u postupku recenzije).
- B.7 Lazić, L., 2011: *Opšta cirkulacija atmosfere*. Institut za meteorologiju Fizičkog fakulteta Univerziteta u Beogradu (skripte).
- B.8 Lazić, L., 2011: *Vazduhoplovna meteorologija*. Institut za meteorologiju Fizičkog fakulteta Univerziteta u Beogradu (skripte).
- B.9 Lazić, L., 2011: *Modelovanje zagađenja u atmosferi*. Hemijski fakultet Univerziteta u Beogradu (skripte).

C. Radovi na međunarodnim konferencijama

C.1 Radovi po pozivu na međunarodnim konferencijama, radnim sastancima i seminarima

- C.1.1 Lazić, L., 1989: Forecast of tropical cyclones *Connie* and *Irma* with a step-mountain model. Seminar at NMC Washington, USA, Jan. 1989.
- C.1.2 Lazić, L., 1989: AMEX tropical cyclones forecasts by the Eta Model. Seminar at ECMWF Reading, UK, Sept. 1989.

- C.1.3 Lazić, L., 1989: The UB/NMC model and model results for the Alpine region. Seminar at Met. Service Bologna, Italy, Oct. 1989.
- C.1.4 Lazić, L., 1989: Data preparation for the UB/NMC model. Seminar at Met. Service Bologna, Italy, Oct. 1989.
- C.1.5 Lazić, L., 1989: The UB/NMC model and model results for the Alpine region. Seminar at ENEA (Italian Committee for the research and development of nuclear and alternative energy), CRE CASACCIA, Rome, Italy, Dec. 1989.
- C.1.6 Lazić, L., 1989: Data preparation for the UB/NMC model. Seminar at ENEA (Italian Committee for the research and development of nuclear and alternative energy), CRE CASACCIA, Rome, Italy, Dec. 1989.
- C.1.7 Lazić, L., 1990: Numerical simulation of flow fields using a limited area step-mountain (eta) model. Invited lecture to College on Atmospheric Boundary Layer Physics: Modelling of the Atmospheric Flow Fields, SMR/462-14, pp 47, 21 May - 01 June 1990, Trieste, Italy.
- C.1.8 Lazić, L., 1990: The UB/NMC Model and Results in the Tropics. Invited lecture to ICTP/WMO Workshop on Extra-tropical and Tropical Limited Area Modelling, SMR/534-7, pp 26, 15 October - 03 November 1990, Trieste, Italy.
- C.1.9 Lazić, L., 1990: Data preparation for the UB/NMC model and model runs. Laboratory sessions on ICTP/WMO Workshop on Extra-tropical and Tropical Limited Area Modelling, 15 October - 03 November 1990, Trieste, Italy.
- C.1.10 Lazić, L., 1991: Atmospheric limited area models: Case of the UB/NMC eta model. Seminar at Geophysical Observatory, Modena University, Modena, Italy, Sept. 1991.
- C.1.11 Lazić, L., 1991: Representation of mountains in atmospheric models. Seminar at Geophysical Observatory, Modena University, Modena, Italy, Sept. 1991.
- C.1.12 Lazić, L., 1994: The Eta model preprocessing and code. Invited lecture to *1st Summer School on Meteorology*. 19-23 September 1994, Krivaja, Bačka Topola, Yugoslavia.
- C.1.13 Lazić, L., 1994: Case studies of tropical cyclones and of the bora wind. Invited lecture to *1st Summer School on Meteorology*. 19-23 September 1994, Krivaja, Bačka Topola, Yugoslavia.
- C.1.14 Lazić, L., 1995: The Eta Model preprocessing and code with demonstrations. Invited lecture to *2nd Summer School on Meteorology*, 28 August- 09 September 1995, Krivaja, Bačka Topola, Yugoslavia.
- C.1.15 Lazić, L., 1996: The Eta System. Invited lecture to *3th Summer School on Meteorology*, 26 August-06 September 1996, Krivaja, Bačka Topola, Yugoslavia, Doc. No. 1.
- C.1.16 Lazić, L., 1997: The Eta System. Invited lecture to *4th Summer School on Meteorology*, 01-12 September 1997, Krivaja, Bačka Topola, Yugoslavia, Doc. No. 1.
- C.1.17 Lazić, L., 1998: A Real Data Simulation of the Adriatic Bora. Invited lecture to *5th Summer School on Meteorology*, 24 August-04 September 1998, Krivaja, Bačka Topola, Yugoslavia, Doc. No. 1.

- C.1.18 Lazić, L., 2002: "Initialization" Using an Iterative Matsuno Style Scheme in the Eta Model Adjustment Stage. *Spring Colloquium on the Physics of Weather and Climate: Regional Weather Prediction Modelling and Predictability*; 08-19 April 2002, ICTP, Trieste, Italy.
<http://agenda.ictp.trieste.it/agenda/current/fullAgenda.php?ida=a01135>
- C.1.19 Lazić, L., 2005: "Initialization" using an iterative Matsuno style scheme in the Eta Model adjustment stage. *Spring Colloquium on the Physics of Weather and Climate: Regional Weather Prediction Modelling and Predictability*; 11-22 April 2005, ICTP, Trieste. Available at
http://cdsagenda5.ictp.trieste.it/askArchive.php?basedagenda&categda04186&id=a04186s264t6/lecture_notes
- C.1.20 Lazić, L., 2008: Initialization of the Eta Model using a backward-first version of the iterative Matsuno style scheme. *Fall Colloquium on the Physics of Weather & Climate: 'Regional Weather Predictability and Modelling'* 29 September-10 October 2008, ICTP, Trieste. Available at
http://cdsagenda5.ictp.trieste.it/full_display.php?ida=a07175
- C.1.21 Mesinger, F, S.C. Chou, J. Gomes, D. Jović, L. Lazić, 2008: A near finite-volume Eta and a case of severe zonda downslope windstorm. In: *Fall Colloquium on the Physics of Weather and Climate: Regional Weather Predictability and Modelling*, The Abdus Salam International Centre for Theoretical Physics, Miramare, Trieste, Italy, 29 September-10 October 2008, 40 pp. Available at
http://cdsagenda5.ictp.trieste.it/askArchive.php?subtalk=1&base=agenda&categ=a07175&id=a07175s10t11/lecture_notes

C.2 Radovi na međunarodnim konferencijama

- C.2.1 Mesinger F. and L. Lazić, 1986: Alpine lee cyclogenesis: diagnostics and numerical simulation as a guide to an appropriate theory. Proceedings of the 19th International Conference on Alpine Meteorology, 1-6 September 1986 - Rauris, Austria. Austrian Meteorological Society, 165-169.
- C.2.2 Lazić, L., Z. Janjić, T. Black and F. Mesinger, 1988: Forecast sensitivity to the choice of the vertical coordinate. 13th General Assembly of European Geophysical Society, 21-25 March 1988, Bologna, Italy, *Annales Geophysicae*, 1988 - Special issue, WII.2-10, p 147.
- C.2.3 Lazić, L., 1988: An ALPEX Lee Cyclogenesis Case Simulated Using a High Resolution Step-mountain Model. 20th International Conference on Alpine Meteorology, 18-25 September 1988, Sestola (Modena), Italy.
- C.2.4 Shou-Jun C. and L. Lazić, 1989: Numerical simulation of the mountain Altai-Sayan lee-cyclogenesis over East Asia. Fifth Scientific Assembly of the International Association of Meteorology and Atmospheric Physics, 31 July to 12 August 1989, Reading, UK.
- C.2.5 Lazić, L., 1989: Dynamical forcing of initial vortex in tropical cyclones. Fifth Scientific Assembly of the International Association of Meteorology and Atmospheric Physics, 31 July to 12 August 1989, Reading, UK.

- C.2.6 Lazić, L., 1989: Forecasts of Northern Australian tropical cyclones using a high resolution limited area step-mountain (eta) model. International conference on high resolution atmospheric limited area modelling, 28-31 August 1989, Oslo, Norway.
- C.2.7 Lazić, L., 1989: AMEX tropical cyclones forecasts by the UB/NMC model. Second WMO International Workshop on Tropical Cyclones, 27 November to 8 December 1989, Manila, Philippines.
- C.2.8 Lazić, L., 1990: AMEX tropical cyclones forecasts by the UB/NMC model. 15th General Assembly of European Geophysical Society. 23-27 April 1990, Copenhagen, Denmark, *Annales Geophysicae*, 1990 - Special issue, SII.4-18, p 164.
- C.2.9 Lazić, L. and C. Shou-Jun, 1990: Numerical Case Study of Altai-Sayan Lee Cyclogenesis over East Asia. 21st International Conference on Alpine Meteorology. 17-21 September 1990, Engelberg, Switzerland, *21. Internationale Tagung Fuer Alpine Meteorologie, tagungsbericht*, 134-138.
- C.2.10 Lazić, L., 1990: AMEX tropical cyclones energy balance by the ETA model. World Renewable Energy Congress. 23-28 September 1990, Reading, United Kingdom.
- C.2.11 Lazić, L., 1991: Transferring new technologies and collaborations between meteorological centres based on the UB/NMC eta model. *Symposium on methodes of meteorological education and training including the use of new relevant technologies*. WMO, 19-23 August 1991, Toronto, Canada, WMO/TD - No.531, Doc. No. 34. [Case Postale 2300, CH-1211 Geneve 2].
- C.2.12 Lazić, L., 1992: Simulations of Mediterranean Cyclones by the Step-Mountain Model. *ICS/ICTP/WMO International Workshop on Mediterranean Cylones Studies*. 18-22 May 1992, Trieste, Italy. ICS/ICTP/WMO, 61-64. [Case Postale 2300, CH-1211 Geneve 2].
- C.2.13 Lazić, L., 1992: Dynamical forcing of initial vortex and small scale energy in tropical cyclones. *7th General Assembly of European Geophysical Society*, Session **OA12**, Newsletter, No 42, 98, *Annales Geophysicae*, Vol **10**, C 242. 06-10 April 1992, Edinburgh, U.K.
- C.2.14 Lazić, L., 1992: The UB/NMC eta model sensitivity and intercomparison study in predicting the AMEX tropical cyclones. *7th General Assembly of European Geophysical Society*, Session **OA12**, Newsletter, No 42, 98, *Annales Geophysicae*, Vol **10**, C 242. 06-10 April 1992, Edinburgh, U.K.
- C.2.15 Lazić, L., 1992: Numerical simulation of local wind bora by very high resolution (10 km x 10 km) eta model. *22nd International Conference on Alpine Meteorology*. 07-11 September 1992, Toulouse, France.
- C.2.16 Lazić, L., 1993: Numerical simulation of local wind bora by very high resolution Eta Model. *16th International Conference on Carpathian Meteorology*. 4-8 October 1993, Smolenice, Slovakia. Geophysical Institute of Slovak Academy of Sciences, 177-181.
- C.2.17 Lazić, L. and I. Saulačić, 1994: Numerical study of local bora wind using Eta Model. 19th General Assembly of European Geophysical Society, 25-29 April 1994, Grenoble, France, *Annales Geophysicae*, 1994 - Special issue, Part II, C311.

- C.2.18 Lazić, L., 1994: Forecasts of AMEX tropical cyclones: Dynamical adjustment of initial vortex. *ICS/ICTP/WMO International Conference on Monsoon Variability and Prediction*. 09 - 13 May, ICTP Trieste, Italy.
- C.2.19 Lazić, L., 1994: Forecasts of AMEX tropical cyclones: The UB/NMC eta model sensitivity and results of an intercomparison study. *ICS/ICTP/WMO International Conference on Monsoon Variability and Prediction*. 09-13 May, ICTP Trieste, Italy.
- C.2.20 Lazić, L., and I. Saulačić, 1994: Impact of height and shape of the orography to local bora wind. *23rd International Conference on Alpine Meteorology 1994 (ITAM 94)*, 5-9 September 1994, Lindau/Lake Constance, Germany. *Annalen der Meteorologie*, **30**, 204-208.
- C.2.21 Gavrilov, M., L. Lazić, D. Jović and Z. Savić, 1995: Software for analyze and graphical describe products of the "Rotated Flat Square Eart" (RFSE) atmospheric model. *2nd International Conference on Computer-aided Learning in Meteorology*, 17-21 July 1995, Toulouse, France.
- C.2.22 Lazić, L., 1995: The effect of vertical coordinate and mountains on prediction of the mountain Altai-Sayan lee cyclogenesis over East Asia. *International Workshop on Limited-Area and Variable Resolution Models*, 23-27 October 1995, Beijing, China.
- C.2.23 Lazić, L., 1995: An Eta Model sensitivity and results of an intercomparison study in predicting the AMEX tropical cyclones. *International Workshop on Limited-Area and Variable Resolution Models*, 23-27 October 1995, Beijing, China.
- C.2.24 Lazić, L. and I. Saulačić, 1996: An Eta Model based trajectory forecasting for the strong local winds. *3rd Balkan Conference on Operational Research*, 16-19 October 1995, Thessaloniki, Greece, Proc. vol. 2, 1378-1385.
- C.2.25 Lazić, L. and I. Tošić, 1996: Sensitivity of wind data frequency to trajectory forecasting for the strong local winds. *XXI General Assembly of European Geophysical Society*, 06-10 May 1996. The Hague, The Netherlands, C511.
- C.2.26 Gavrilov, M., L. Lazić, D. Jović and Z. Savić, 1996: Software for an Analysis and Graphical Description of the Output of a "Rotated Flat Square Earth" (RFSE) Atmospheric Model. *The Fourth International Conference on School and Popular Meteorological and Oceanographic Education*. 12-26 July 1996. Edinburgh, U.K., 234-237.
- C.2.27 Lazić, L. and I. Tošić, 1996: Underground values of meteorological variables in mountain regions. *17th International Conference on Carpathian Meteorology 1996 (ICCM 96)*. 14-18 October 1996, Visegrad, Hungary, 120-125.
- C.2.28 Lazić, L. and I. Tošić, 1996: The trajectory approach in pollution transport through the atmosphere. *XXIV savetovanje sa međunarodnim učešćem "Zaštita vazduha '96"*, 20-22 novembar 1996, Beograd, 225-234.
- C.2.29 Lazić, L. and I. Tošić, 1999: Sensitivity of trajectory forecasting in strong local winds to wind data frequency. The 22nd General Assembly of the International Union of Geodesy and Geophysics, 18th -30th July 1999, Birmingham, UK, No. 5.

- C.2.30 Vukmirović, Z., M. Unkašević, L. Lazić, I. Tošić, and M. Tasić, 1999: Analysis of Saharan Dust Transport Using the Eta model, in: P.M. Borrell & P. Borrell (eds.) Proc. EUROTRAC Symp. '98, WITpress, Southampton, 1999, Vol. 2, 851 - 855.
- C.2.31 Lazić, L., 2000: "Initialization" using an iterative Matsuno style scheme in the Eta Model adjustment stage. *XXV General Assembly of European Geophysical Society- Millennium Conference on Earth, Planetary & Solar Systems Sciences*, 24-29 April 2000, Nice, France, Proc. Geophysical Research Abstracts, Vol. 2.
http://www.copernicus.org/EGU/gra/gra_02/pdf/ats.pdf
- C.2.32 Vukmirović, Z., L. Lazić, I. Tošić and M. Unkašević, 2000: Regional air pollution originating from oil-refinery fires under war conditions. Proc. *Millennium NATO/CMS International Technical Meeting on Air Pollution Modeling and Its Application*. American Meteorological Society 15-19 May 2000, Boulder, USA, 228-229.
- C.2.33 Vukmirović, Z., L. Lazić, I. Tošić and M. Unkašević, 2000: Regional air pollution during NATO campaign in Yugoslavia 1999. *Int. Conference on Environmental Management and Sustainable Development in Balkans*, 7-9 July 2000, Preveza, Greece, Balkan Environmental Association, Thessaloniki, Book of Abstracts (2000b) 39.
- C.2.34 Vukmirović, Z., L. Lazić, I. Tošić and M. Unkašević, 2000: Analysis of air pollution transport from war zones in Serbia during operation "Allied Force". 9-12 September 2000, Sheffield, U.K. <http://www.shef.ac.uk/~fada/>
- C.2.35 Unkašević, M., L. Lazić, I. Tošić and Z. Vukmirović, 2000: Monitoring of cloud and precipitation during air pollution transport in warfare episode in Serbia. *3rd International Conference of Balkan Environmental Association (B.EN.A.) – Transboundary Pollution*. [B.EN.A. - Transboundary Pollution](http://www.bena.ro/). 23-26 November 2000, Bucharest, Romania.
- C.2.36 Vukmirović, Z; Lazić, L; Tošić, I; Unkašević, M, 2001: Editor(s): Gryning, SE; Schiermeier, FA Title: Regional air pollution originating from oil-refinery fires under war conditions Source: AIR POLLUTION MODELING AND ITS APPLICATION XIV: 741-742 Conference Title: 24th NATO/CCMS International Technical Meeting on Air Pollution Modelling and Its Application Conference Date: MAY 15-19, 2000 Conference Location: BOULDER, CO ISBN: 0-306-46534-5
- C.2.37 Lazić, L., M. Unkašević, M., I. Tošić, Vukmirović, Z., D. Vujović, 2001: Air pollution caused by a simultaneous destruction of chemical industry and oil facilities during nato campaign in Serbia, *International Conference*, B.EN.A. - Env. Education & sustainable development in south-eastern Europe, 25-28 June, Chalkidiki, Greece, 135.
- C.2.38 Vukmirović, Z., M. Unkašević, M., L. Lazić, I. Tošić, Rajšić, S., M. Tasić, 2001: Analysis of Saharan dust transport using the Eta model, *International Conference*, B.EN.A. - Env. Education & sustainable development in south-eastern Europe, 25-28 June, Chalkidiki, Greece, 120.
- C.2.39 Vukmirović, Z., M. Unkašević, L. Lazić, I. Tošić, V. Joksimović, 2001: Regional air pollution caused by a simultaneous destruction of major

- industrial sources during the 1999 air campaign in Yugoslavia, *First International Conference on Environment Recovery of Yugoslavia*, [ENRY2001](#), 27-30 September, Belgrade, Yugoslavia, CDROM ISBN 86-7306-054-0
- C.2.40 Unkašević, M., L. Lazić, I. Tošić and Z. Vukmirović, 2001: Effects of soot and aerosol emission on local climate under warfare condition in Serbia, *4th International Conference of the B.EN.A. - Transboundary Pollution*, 18-21 October, Edirne, Turkey, 13.
- C.2.41 Lazić, L., 2002: Initialization using a super Matsuno scheme in the Eta model. *18 th International Conference on Carpathian Meteorology*, 7-11 October 2002. Belgrade, Yugoslavia. Mountain influence on weather - Book of abstracts, 18-19.
- C.2.42 Lazić, L. and I. Tošić, 2002: Sensitivity of forecast trajectories to wind data inputs during local winds Bora and Koshawa, *18 th International Conference on Carpathian Meteorology*, 7-11 October 2002. Belgrade, Yugoslavia. Mountain influence on weather - Book of abstracts, 14-15.
- C.2.43 Lazić, L., I. Tošić, Z. Vukmirović and M. Unkašević, 2002: Regional air pollution originating from oil-refinery fires during the NATO campaign in Yugoslavia 1999, *18 th International Conference on Carpathian Meteorology*, 7-11 October 2002. Belgrade, Yugoslavia. Mountain influence on weather - Book of abstracts, 81-82.
- C.2.44 Lazić, L., 2004: A comparison of super-Matsuno scheme and digital filtering initializations in the Eta Model. *I General Assembly of European Geophysical Union*, 25-30 April 2004, Nice, France, CD-ROM Proc. Geophysical Research Abstracts, Vol. 6.
<http://www.cosis.net/abstracts/EGU04/07186/EGU04-J-07186.pdf>
- C.2.45 Mesinger F. and L. Lazić, 2004: Water vapor sources and sinks, and hydrometeor loading in the Eta Model. *I General Assembly of European Geophysical Union*, 25-30 April 2004, Nice, France, CD-ROM Proc. Geophysical Research Abstracts, Vol. 6.
<http://www.cosis.net/abstracts/EGU04/07181/EGU04-J-07181.pdf>
- C.2.46 Mijić Z., L. Lazić, S. Rajšić, M. Tasić and V. Novaković, 2005: Air-Back Trajectories analysis for High PM Concentration Episodes. The changing Chemical Climate of the Atmosphere, First ACCENT Symposium, Urbino, September 12-16, 2005. Book of Abstracts, 42. Proceedings CD, pg. 52-53.
- C.2.47 Rajšić, S., Z. Mijić, L. Lazić, M. Tasić and V. Novaković, 2005: Analysis of PM₁₀ and PM_{2.5} Air Pollution Episodes in Belgrade. The Sixth European Meeting on Environmental Chemistry (EMEC6), Belgrade, Serbia and Montenegro, December 6-10, 2005. The Book of Abstracts, 276.
- C.2.48 Mijić Z.R., L.A. Lazić, S.F. Rajšić, M.D. Tasić and V.T. Novaković, 2006: Some Characteristic Air Back Trajectories For High PM₁₀ and PM_{2.5} Concentration Episodes. 6th International Conference of the Balkan Physical Union, Book of Abstracts, p. 1006, 22-26 August, Istanbul, Turkey.
<http://bpu6.balkanphysicalunion.org/program/bpu6-program.htm>

- C.2.49 Lazić, L., G. Pejanović and M. Živković, 2008: Verification of the Eta Model Forecasts for the Power Plant Winds. *General Assembly of European Geophysical Union*, 13-18 April 2008, Wiena, Austria, CD-ROM Proc. Geophysical Research Abstracts, Vol. 10, EGU2008-A-02694.
- C.2.50 Mesinger F., S. C. Chou, J. Gomes, D. Jović, L. Lazić, 2008: A near finite-volume Eta and a Case of severe Zonda downslope Windstorm *General Assembly of European Geophysical Union*, 13-18 April 2008, Wiena, Austria, CD-ROM Proc. Geophysical Research Abstracts, Vol. 10, EGU2008-A-09692.
SRef-ID: 1607-7962/gra/EGU2008-A-09692
- C.2.51 Lazić, L., G. Pejanović and M. Živković, 2008: Verification of the Eta Model Forecasts for the Power Plant Winds. *European Meteorological Society Annual Meeting, European Conference on Applied Climatology (ECAC)*, 29 September – 03 October 2008, Amsterdam, Netherland. EMS8/ECAC7 Abstracts, Vol. 5, EMS2008-A-00466.
- C.2.52 Lazić, L., 2010: Initialization of the Eta Model using a backward-first version of the iterative Matsuno style scheme. *European Meteorological Society Annual Meeting, European Conference on Applied Climatology (ECAC)*, 13 - 17 September 2010, Zurich, Switzerland, 10th EMS/8th ECAC; EMS Annual Meeting Abstracts Vol. 7, EMS2010-316.
- C.2.53 Mesinger, F., S.C. Chou, J.L. Gomes, D. Jović, L. Lazić, A. Lyra, J.F. Bustamante, P. Bastos, S. Morelli, I. Ristić, 2011: An upgraded Version of the Eta Model. *Geophysical Research Abstracts* Vol. 13, EGU2011-3753-1, 2011, EGU General Assembly 2011.

D. Radovi u zbornicima domaćih konferencija

- D.1 Mijić Z., L. Lazić, S. Rajšić, i V. Novaković, 2005: Analiza transporta za vreme epizoda sa visokim koncentracijama PM čestica. Nacionalna konferencija, EKO FIZIKA 2005, Kruševac, 21-22 maj 2005. Zbornik radova, 230-233.

E. Radovi u domaćim časopisima

- E.1 Lazić, L., 1999: Kako meteorolozi računaju prognozu vremena. *Elektroprivreda*. 2, 67-75.

F. Magistarska teza i doktorska disertacija

- F.1 Lazić, L., 1980: Šeme za horizontalnu advekciju u jednačinama kretanja na E mreži. *Magistarska teza*. Institut za meteorologiju Fizičkog fakulteta Univerziteta u Beogradu.
- F.2 Lazić, L., 1991: Numeričke prognoze tropskih ciklona korišćenjem UB/NMC eta modela. *Doktorska disertacija*. Institut za meteorologiju Fizičkog fakulteta Univerziteta u Beogradu.

6. Spisak citata

Radovi kandidata citirani su u međunarodnim naučnim časopisima 100 puta. Ovaj broj je zasnovan na podacima dobijenim od Univerzitetske biblioteke u Beogradu zaključno sa 1999. godinom i bez 1997. godine i on iznosi 20 citata, kao i ličnim informacijama kandidata u periodu koji nije pokriven izveštajem Univerzitetske biblioteke, a taj broj je 8 citata.

Kasnija citiranost može se dobiti na <http://www.scopus.com/scopus/home.url> Nova citiranost od 2000. godine je 72. Monografija Svetske meteorološke organizacije (Lazić, L. and B. Telenta, 1990: Documentation of the UB/NMC Eta Model. *Tropical Meteorology Research Programme*, World Meteorological Organization, Geneve, WMO/TD-No. 366, pp. 304) je citirana 19 puta.

Sledi spisak citata:

Lazic L., Pejanovic G., Zivkovic M.

Wind forecasts for wind power generation using the Eta model

(2010) *Renewable Energy*, 35 (6) , pp. 1236-1243. (5 puta)

Scopus

EXPORT DATE: 11 January 2012

Foley, A.M., Leahy, P.G., Marvuglia, A., McKeogh, E.J.

Current methods and advances in forecasting of wind power generation

(2012) *Renewable Energy*, 37 (1), pp. 1-8.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79961126223&partnerID=40&md5=804b8693a8421121b57f414a10cd47dd)

[79961126223&partnerID=40&md5=804b8693a8421121b57f414a10cd47dd](http://www.scopus.com/inward/record.url?eid=2-s2.0-79961126223&partnerID=40&md5=804b8693a8421121b57f414a10cd47dd)

DOCUMENT TYPE: Review

SOURCE: Scopus

De Giorgi, M.G., Ficarella, A., Tarantino, M.

Assessment of the benefits of numerical weather predictions in wind power forecasting based on statistical methods

(2011) *Energy*, 36 (7), pp. 3968-3978.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79959375425&partnerID=40&md5=156b302bd6a15ac5f81b42ac42220bb9)

[79959375425&partnerID=40&md5=156b302bd6a15ac5f81b42ac42220bb9](http://www.scopus.com/inward/record.url?eid=2-s2.0-79959375425&partnerID=40&md5=156b302bd6a15ac5f81b42ac42220bb9)

DOCUMENT TYPE: Article

SOURCE: Scopus

Catalão, J.P.S., Pousinho, H.M.I., Mendes, V.M.F.

Short-term wind power forecasting in Portugal by neural networks and wavelet transform

(2011) *Renewable Energy*, 36 (4), pp. 1245-1251. Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-78649450621&partnerID=40&md5=8e48149a5f752fe8905acaacea0254bd)

[78649450621&partnerID=40&md5=8e48149a5f752fe8905acaacea0254bd](http://www.scopus.com/inward/record.url?eid=2-s2.0-78649450621&partnerID=40&md5=8e48149a5f752fe8905acaacea0254bd)

DOCUMENT TYPE: Article

SOURCE: Scopus

Rasmussen, D.J., Holloway, T., Nemet, G.F.

Opportunities and challenges in assessing climate change impacts on wind energy - A critical comparison of wind speed projections in California

(2011) *Environmental Research Letters*, 6 (2), art. no. 024008, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960327960&partnerID=40&md5=07ff67928099ef0eea78bfa64f6f1618)

[79960327960&partnerID=40&md5=07ff67928099ef0eea78bfa64f6f1618](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960327960&partnerID=40&md5=07ff67928099ef0eea78bfa64f6f1618)

DOCUMENT TYPE: Article

SOURCE: Scopus

Soman, S.S., Zareipour, H., Malik, O., Mandal, P.
A review of wind power and wind speed forecasting methods with different time horizons
(2010) North American Power Symposium 2010, NAPS 2010, art. no. 5619586, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-78650045524&partnerID=40&md5=f518b6883d0dcb550749c89ecb81e868>
DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Markovic D.M., Markovic D.A., Jovanovic A., Lazic L., Mijic Z.
Determination of O3, NO2, SO2, CO and PM10 measured in Belgrade urban area
(2008) *Environmental Monitoring and Assessment*, 145 (1-3) , pp. 349-359. (8 puta)
Scopus
EXPORT DATE: 11 January 2012

Ahmad, S.S., Biiker, P., Emberson, L., Shabbir, R.
Monitoring nitrogen dioxide levels in Urban Areas in Rawalpindi, Pakistan
(2011) *Water, Air, and Soil Pollution*, 220 (1-4), pp. 141-150.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-80052282831&partnerID=40&md5=4f7077b210c04b8ea06db108e57d042f>
DOCUMENT TYPE: Article
SOURCE: Scopus

Jovasević-Stojanović, M., Bartonova, A.
Current state of particulate matter research and management in Serbia [Trenutno stanje istraživanja i upravljanja respirabilnim cesticama u Srbiji]
(2010) *Chemical Industry and Chemical Engineering Quarterly*, 16 (3), pp. 207-212.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-78649340495&partnerID=40&md5=cd3dd2e29b822c2230a28535f4a9342e>
DOCUMENT TYPE: Article
SOURCE: Scopus

Joksić, J., Radenković, M., Cvetković, A., Matić-Besarabić, S., Jovašević-Stojanović, M., Bartonova, A., Yttri, K.E.
Variations of PM10 mass concentrations and correlations with other pollutants in Belgrade urban area [Varijacije PM10 koncentracija i njihova korelacija sa koncentracijama ostalih zagađivača u urbanoj sredini u Beogradu]
(2010) *Chemical Industry and Chemical Engineering Quarterly*, 16 (3), pp. 251-258. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-78649299540&partnerID=40&md5=cb295ccc3e9f6dd4df3da782f94090e8>
DOCUMENT TYPE: Article
SOURCE: Scopus

Kim, Y., Kim, M., Lim, J., Kim, J.T., Yoo, C.
Predictive monitoring and diagnosis of periodic air pollution in a subway station
(2010) *Journal of Hazardous Materials*, 183 (1-3), pp. 448-459. Cited 2 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77956426012&partnerID=40&md5=a6b82c026e5aa71157d25258e95b8e03>
DOCUMENT TYPE: Article
SOURCE: Scopus

Kim, Y.-S., Kim, J.T., Kim, I.-W., Kim, J.-C., Yoo, C.
Multivariate monitoring and local interpretation of indoor air quality in Seoul's metro system
(2010) *Environmental Engineering Science*, 27 (9), pp. 721-731. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77958062954&partnerID=40&md5=d6ac0de8a652b525efe97ea82d8968f9>
DOCUMENT TYPE: Article
SOURCE: Scopus

Anthwal, A., Jung, K., Kim, H.J., Bae, I.I.-S., Kim, K.-H.
Polycyclic aromatic hydrocarbons in ambient air at four urban locations of Seoul, Korea
(2010) *Fresenius Environmental Bulletin*, 19 (7), pp. 1356-1368. Cited 2 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77955404439&partnerID=40&md5=7bc253861b86393cbeclab78d4adaefd>
DOCUMENT TYPE: Article
SOURCE: Scopus

Kim, Y.-S., Kim, M.-H., Kim, S.-J., Kim, I.-W., Jeon, J.-S., Yoo, C.-K.
Multidimensional interpretation of the air quality change by the installation of PSD in a subway station
(2009) ICCAS-SICE 2009 - ICROS-SICE International Joint Conference 2009, Proceedings, art. no. 5334959, pp. 1693-1698.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77951145309&partnerID=40&md5=a60ec5b2414e125f2b2b6e3c77755b51>
DOCUMENT TYPE: Conference Paper SOURCE: Scopus

Thimmaiah, D., Hovorka, J., Hopke, P.K.
Source apportionment of winter submicron prague aerosols from combined particle number size distribution and gaseous composition data
(2009) *Aerosol and Air Quality Research*, 9 (2), pp. 209-236. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-67650960840&partnerID=40&md5=dad5491ee71c110e4cd6337483fa9627>
DOCUMENT TYPE: Article
SOURCE: Scopus

Vukmirovic Z., Unkasevic M., Lazic L., Tosic I., Rajic S., Tasic M.
Analysis of the Saharan dust regional transport
(2004) *Meteorology and Atmospheric Physics*, 85 (4) , pp. 265-273. (5 puta)
Scopus
EXPORT DATE: 11 January 2012

Deleva, A.D., Avramov, L.A., Stoyanov, D.V.
Laser remote sensing of tropospheric aerosols and clouds
(2011) *Proceedings of SPIE - The International Society for Optical Engineering*, 7747, art. no. 77470Q,
.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-79951733975&partnerID=40&md5=3b612942b3787995e56403ffc4a6f637>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Deleva, A.D., Peshev, Z.Y., Slesar, A.S., Denisov, S., Avramov, L.A., Stoyanov, D.V.
Vertical profiling of atmospheric backscatter with a Raman-aerosol lidar
(2010) *AIP Conference Proceedings*, 1203, pp. 388-393.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-76749139080&partnerID=40&md5=006e4fdca319986ff02f90c8569a8f5b>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Engelstaedter, S., Tegen, I., Washington, R.
North African dust emissions and transport
(2006) *Earth-Science Reviews*, 79 (1-2), pp. 73-100. Cited 83 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33750938298&partnerID=40&md5=4e206310cc0687f0371412bac39df535>
DOCUMENT TYPE: Article
SOURCE: Scopus

Dordević, D., Mihajlidi-Zelić, A., Relić, D.
Differentiation of the contribution of local resuspension from that of regional and remote sources on trace elements content in the atmospheric aerosol in the Mediterranean area

(2005) *Atmospheric Environment*, 39 (34), pp. 6271-6281. Cited 6 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-26044479097&partnerID=40&md5=d0cfdfa0b90a5bd4c0ac5ad82f5b6a95>
DOCUMENT TYPE: Article
SOURCE: Scopus

Dordević, D., Vukmirović, Z., Tošić, I., Unkašević, M.
Contribution of dust transport and resuspension to particulate matter levels in the Mediterranean atmosphere
(2004) *Atmospheric Environment*, 38 (22), pp. 3637-3645. Cited 25 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-2942546279&partnerID=40&md5=4478af3d2f1341e9ffdde5166295e25>
DOCUMENT TYPE: Article
SOURCE: Scopus

Unkasevic M., Vukmirovic Z., Tosic I., Lazic L.
Effects of uncontrolled particulate matter release on precipitation under warfare conditions
(2003) *Environmental Science and Pollution Research*, 10 (2) , pp. 89-97. (2 puta)
Scopus
EXPORT DATE: 11 January 2012

Vukmirović, Z., Unkašević, M., Tošić, I.
Atmospheric transport and deposition of persistent organic pollutants under warfare conditions
(2009) *Handbook of Environmental Chemistry, Volume 3: Anthropogenic Compounds*, 3 U, pp. 171-208.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-63349108217&partnerID=40&md5=2b2dd5366f34c2fa978e2f3d1b1ece50>
DOCUMENT TYPE: Article
SOURCE: Scopus

Young, A.L.
Coalbed methane: A new source of energy and environmental challenges
(2005) *Environmental Science and Pollution Research*, 12 (6), pp. 318-321. Cited 5 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-27644470540&partnerID=40&md5=e3a1b67ccf1e9c54151d9b01ff526d11>
DOCUMENT TYPE: Note
SOURCE: Scopus

Vukmirovic Z.B., Unkasevic M., Lazic L., Tosic I.
Regional air pollution caused by a simultaneous destruction of major industrial sources in a war zone. The case of April Serbia in 1999
(2001) *Atmospheric Environment*, 35 (15) , pp. 2773-2782. (6 puta)
Scopus EXPORT DATE: 11 January 2012
Riccobono, F., Perra, G., Pisani, A., Protano, G.
Trace element distribution and 235U/238U ratios in euphrates waters and in soils and tree barks of dhi qar province (southern iraq)
(2011) *Science of the Total Environment*, 409 (19), pp. 3829-3838.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-80051798683&partnerID=40&md5=161a401ab74c17983f239aef68c71316>
DOCUMENT TYPE: Article
SOURCE: Scopus

Vukmirović, Z., Unkašević, M., Tošić, I.
Atmospheric transport and deposition of persistent organic pollutants under warfare conditions
(2009) *Handbook of Environmental Chemistry, Volume 3: Anthropogenic Compounds*, 3 U, pp. 171-208.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-63349108217&partnerID=40&md5=2b2dd5366f34c2fa978e2f3d1b1ece50>
DOCUMENT TYPE: Article
SOURCE: Scopus

Hopke, P.K.

Contemporary threats and air pollution

(2009) *Atmospheric Environment*, 43 (1), pp. 87-93. Cited 9 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-56549105920&partnerID=40&md5=2e5c55050d01a4c921dba91d089a6dc0)

[56549105920&partnerID=40&md5=2e5c55050d01a4c921dba91d089a6dc0](http://www.scopus.com/inward/record.url?eid=2-s2.0-56549105920&partnerID=40&md5=2e5c55050d01a4c921dba91d089a6dc0)

DOCUMENT TYPE: Article

SOURCE: Scopus

Astitha, M., Kallos, G., Mihalopoulos, N.

Analysis of air quality observations with the aid of the source-receptor relationship approach

(2005) *Journal of the Air and Waste Management Association*, 55 (4), pp. 523-535. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-17844365345&partnerID=40&md5=dda0cb9883095f1ffdd0c0b8dd3d392f)

[17844365345&partnerID=40&md5=dda0cb9883095f1ffdd0c0b8dd3d392f](http://www.scopus.com/inward/record.url?eid=2-s2.0-17844365345&partnerID=40&md5=dda0cb9883095f1ffdd0c0b8dd3d392f)

DOCUMENT TYPE: Article

SOURCE: Scopus

Dordević, D., Vukmirović, Z., Tošić, I., Unkašević, M.

Contribution of dust transport and resuspension to particulate matter levels in the Mediterranean atmosphere

(2004) *Atmospheric Environment*, 38 (22), pp. 3637-3645. Cited 25 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-2942546279&partnerID=40&md5=4478af3d2f1341e9ffdde5166295e25)

[2942546279&partnerID=40&md5=4478af3d2f1341e9ffdde5166295e25](http://www.scopus.com/inward/record.url?eid=2-s2.0-2942546279&partnerID=40&md5=4478af3d2f1341e9ffdde5166295e25)

DOCUMENT TYPE: Article

SOURCE: Scopus

Teil, M.-J., Blanchard, M., Chevreuil, M.

Atmospheric deposition of organochlorines (PCBs and pesticides) in northern France

(2004) *Chemosphere*, 55 (4), pp. 501-514. Cited 23 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-1542316216&partnerID=40&md5=e1773f690379958cfbce5567a74a76e7)

[1542316216&partnerID=40&md5=e1773f690379958cfbce5567a74a76e7](http://www.scopus.com/inward/record.url?eid=2-s2.0-1542316216&partnerID=40&md5=e1773f690379958cfbce5567a74a76e7)

DOCUMENT TYPE: Article

SOURCE: Scopus

Lazic L., Tosic I.

A real data simulation of the adriatic bora and the impact of mountain height on bora trajectories

(1998) *Meteorology and Atmospheric Physics*, 66 (3-4) , pp. 143-155. (14 puta)

Scopus

EXPORT DATE: 11 January 2012

Hughes, P.D., Woodward, J.C., van Calsteren, P.C., Thomas, L.E.

The glacial history of the Dinaric Alps, Montenegro

(2011) *Quaternary Science Reviews*, 30 (23-24), pp. 3393-3412.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-82455175336&partnerID=40&md5=f5d8c3325935878716895438e09d5b57)

[82455175336&partnerID=40&md5=f5d8c3325935878716895438e09d5b57](http://www.scopus.com/inward/record.url?eid=2-s2.0-82455175336&partnerID=40&md5=f5d8c3325935878716895438e09d5b57)

DOCUMENT TYPE: Article

SOURCE: Scopus

Signell, R.P., Chiggiato, J., Horstmann, J., Doyle, J.D., Pullen, J., Askari, F.

High-resolution mapping of Bora winds in the northern Adriatic Sea using synthetic aperture radar

(2010) *Journal of Geophysical Research C: Oceans*, 115 (4), art. no. C04020, . Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-77953587092&partnerID=40&md5=4dbd4d9a708214d1b993826cfb6d76df)

[77953587092&partnerID=40&md5=4dbd4d9a708214d1b993826cfb6d76df](http://www.scopus.com/inward/record.url?eid=2-s2.0-77953587092&partnerID=40&md5=4dbd4d9a708214d1b993826cfb6d76df)

DOCUMENT TYPE: Article

SOURCE: Scopus

Vukmirović, Z., Unkašević, M., Tošić, I.
Atmospheric transport and deposition of persistent organic pollutants under warfare conditions
(2009) Handbook of Environmental Chemistry, Volume 3: Anthropogenic Compounds, 3 U, pp. 171-208.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-63349108217&partnerID=40&md5=2b2dd5366f34c2fa978e2f3d1b1ece50>

DOCUMENT TYPE: Article

SOURCE: Scopus

Grisogono, B., Belušić, D.

A review of recent advances in understanding the meso- and microscale properties of the severe Bora wind

(2009) Tellus, Series A: Dynamic Meteorology and Oceanography, 61 A (1), pp. 1-16. Cited 15 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-58049125472&partnerID=40&md5=81512bb9020edf2e60bda872376e2581>

DOCUMENT TYPE: Review SOURCE: Scopus

Dorman, C.E., Carniel, S., Cavaleri, L., Sclavo, M., Chiggiato, J., Doyle, J., Haack, T., Pullen, J., Grbec, B., Vilibić, I., Janeković, I., Lee, C., Malačič, V., Orlić, M., Paschini, E., Russo, A., Signell, R.P.

February 2003 marine atmospheric conditions and the bora over the northern Adriatic

(2007) Journal of Geophysical Research C: Oceans, 112 (3), art. no. C03S03, . Cited 18 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34249781726&partnerID=40&md5=db379133209b58424378a7357640c58b>

DOCUMENT TYPE: Article

SOURCE: Scopus

Kuzmić, M., Janeković, I., Book, J.W., Martin, P.J., Doyle, J.D.

Modeling the northern Adriatic double-gyre response to intense bora wind: A revisit

(2007) Journal of Geophysical Research C: Oceans, 112 (3), art. no. C03S13, . Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34249813735&partnerID=40&md5=ae7a177d47035578dc75d10328044437>

DOCUMENT TYPE: Article

SOURCE: Scopus

Yu, C.-K., Jorgensen, D.P., Roux, F.

Multiple precipitation mechanisms over mountains observed by airborne Doppler radar during MAP IOP5

(2007) Monthly Weather Review, 135 (3), pp. 955-984. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34047219687&partnerID=40&md5=bc624bd3236cf7ecf07bbab1b66b2227>

DOCUMENT TYPE: Article

SOURCE: Scopus

Gohm, A., Mayr, G.J.

Numerical and observational case-study of a deep Adriatic bora

(2005) Quarterly Journal of the Royal Meteorological Society, 131 (608), pp. 1363-1392. Cited 23 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-27544476948&partnerID=40&md5=93c5360dfa08e62c4bc5b3e8e179f769>

DOCUMENT TYPE: Article

SOURCE: Scopus

Pradier, S., Chong, M., Roux, F.

Characteristics of some frontal stratiform precipitation events south of the alpine chain during MAP

(2004) Meteorology and Atmospheric Physics, 87 (4), pp. 197-218. Cited 6 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-11244338017&partnerID=40&md5=87c987e05f7bef2120cde194e64d030c>

DOCUMENT TYPE: Article

SOURCE: Scopus

Belušić, D., Klaić, Z.B.

Estimation of bora wind gusts using a limited area model

(2004) *Tellus, Series A: Dynamic Meteorology and Oceanography*, 56 (4), pp. 296-307. Cited 24 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-3843088603&partnerID=40&md5=245160bc2c68a42edca8c2106cf690fe)

[3843088603&partnerID=40&md5=245160bc2c68a42edca8c2106cf690fe](http://www.scopus.com/inward/record.url?eid=2-s2.0-3843088603&partnerID=40&md5=245160bc2c68a42edca8c2106cf690fe)

DOCUMENT TYPE: Article SOURCE: Scopus

Cesini, D., Morelli, S., Parmiggiani, F.

Analysis of an intense bora event in the Adriatic area

(2004) *Natural Hazards and Earth System Science*, 4 (2), pp. 323-337. Cited 7 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-2442713746&partnerID=40&md5=b6acb9306300bd9c64b121e91bc89243)

[2442713746&partnerID=40&md5=b6acb9306300bd9c64b121e91bc89243](http://www.scopus.com/inward/record.url?eid=2-s2.0-2442713746&partnerID=40&md5=b6acb9306300bd9c64b121e91bc89243)

DOCUMENT TYPE: Article

SOURCE: Scopus

Klaić, Z.B., Belušić, D., Grubišić, V., Gabela, L., Čoso, L.

Mesoscale airflow structure over the northern Croatian coast during MAP IOP 15 - A major bora event
[Struktura mezoskalnog strujanja nad sjevernim Jadranom tijekom MAP IOP 15 eksperimenta - slučaj
jake bure]

(2003) *Geofizika*, 20, pp. 23-61. Cited 18 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-2142817246&partnerID=40&md5=92fa6197e29f1cc35cff7aeb6461dd35)

[2142817246&partnerID=40&md5=92fa6197e29f1cc35cff7aeb6461dd35](http://www.scopus.com/inward/record.url?eid=2-s2.0-2142817246&partnerID=40&md5=92fa6197e29f1cc35cff7aeb6461dd35)

DOCUMENT TYPE: Article

SOURCE: Scopus

Steiner, M., Bousquet, O., Houze Jr, R.A., Smull, B.F., Mancini, M.

Airflow within major Alpine river valleys under heavy rainfall

(2003) *Quarterly Journal of the Royal Meteorological Society*, 129 (588 PART B), . Cited 34 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0037246560&partnerID=40&md5=47f805be29c97c3b6ee6bb891ef1e6bd)

[0037246560&partnerID=40&md5=47f805be29c97c3b6ee6bb891ef1e6bd](http://www.scopus.com/inward/record.url?eid=2-s2.0-0037246560&partnerID=40&md5=47f805be29c97c3b6ee6bb891ef1e6bd)

DOCUMENT TYPE: Article

SOURCE: Scopus

Pradier, S., Chong, M., Roux, F.

Radar observations and numerical modeling of a precipitating line during MAP IOP 5

(2002) *Monthly Weather Review*, 130 (11), pp. 2533-2553. Cited 18 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0036852801&partnerID=40&md5=b4c72a041c84930291b1d75f90156455)

[0036852801&partnerID=40&md5=b4c72a041c84930291b1d75f90156455](http://www.scopus.com/inward/record.url?eid=2-s2.0-0036852801&partnerID=40&md5=b4c72a041c84930291b1d75f90156455)

DOCUMENT TYPE: Article

SOURCE: Scopus

Tosic I., Lazic L.

Improved bora wind simulation using a nested Eta model

(1998) *Meteorology and Atmospheric Physics*, 66 (1-2) , pp. 1-10. **(5 puta)**

Scopus

EXPORT DATE: 11 January 2012

Alpers, W., Ivanov, A., Horstmann, J.

Observations of Bora events over the Adriatic Sea and Black Sea by spaceborne synthetic aperture radar

(2009) *Monthly Weather Review*, 137 (3), pp. 1150-1161. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-68349119136&partnerID=40&md5=214afc13e0276b944a12a51007508eba)

[68349119136&partnerID=40&md5=214afc13e0276b944a12a51007508eba](http://www.scopus.com/inward/record.url?eid=2-s2.0-68349119136&partnerID=40&md5=214afc13e0276b944a12a51007508eba)

DOCUMENT TYPE: Article

SOURCE: Scopus

Grisogono, B., Belušić, D.

A review of recent advances in understanding the meso- and microscale properties of the severe Bora wind

(2009) *Tellus, Series A: Dynamic Meteorology and Oceanography*, 61 A (1), pp. 1-16. Cited 15 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-58049125472&partnerID=40&md5=81512bb9020edf2e60bda872376e2581>
DOCUMENT TYPE: Review
SOURCE: Scopus

Burlando, M.
The synoptic-scale surface wind climate regimes of the Mediterranean Sea according to the cluster analysis of ERA-40 wind fields
(2009) *Theoretical and Applied Climatology*, 96 (1-2), pp. 69-83. Cited 4 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-64749108836&partnerID=40&md5=72b8be802ac9d0073dc2de2455d2f93a>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Gohm, A., Mayr, G.J.
Numerical and observational case-study of a deep Adriatic bora
(2005) *Quarterly Journal of the Royal Meteorological Society*, 131 (608), pp. 1363-1392. Cited 23 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-27544476948&partnerID=40&md5=93c5360dfa08e62c4bc5b3e8e179f769>
DOCUMENT TYPE: Article
SOURCE: Scopus

Belušić, D., Klaić, Z.B.
Estimation of bora wind gusts using a limited area model
(2004) *Tellus, Series A: Dynamic Meteorology and Oceanography*, 56 (4), pp. 296-307. Cited 24 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-3843088603&partnerID=40&md5=245160bc2c68a42edca8c2106cf690fe>
DOCUMENT TYPE: Article
SOURCE: Scopus

Lazic L.
Eta model forecasts of tropical cyclones from Australian Monsoon Experiment: The model sensitivity
(1993) *Meteorology and Atmospheric Physics*, 52 (3-4) , pp. 113-127. (3 puta)
Scopus
EXPORT DATE: 11 January 2012

Ueno, M.
Steering weight concept and its application to tropical cyclones simulated in a vertical shear experiment
(2003) *Journal of the Meteorological Society of Japan*, 81 (5), pp. 1137-1161. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-1642447928&partnerID=40&md5=ec8e5d0aa9ca7f524928544bd724e527>
DOCUMENT TYPE: Article
SOURCE: Scopus

Wang, Y.
On the bogusing of tropical cyclones in numerical models: The influence of vertical structure
(1998) *Meteorology and Atmospheric Physics*, 65 (3-4), pp. 153-170. Cited 22 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0032370869&partnerID=40&md5=828666b3970a0d9abf0df9449e97517a>
DOCUMENT TYPE: Article
SOURCE: Scopus

Betts, A.K., Chen, F., Mitchell, K.E., Janjić, Z.I.
Assessment of the land surface and boundary layer models in two operational versions of the NCEP Eta Model using FIFE data

(1997) Monthly Weather Review, 125 (11), pp. 2896-2916. Cited 111 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-9444260366&partnerID=40&md5=10f429ddc584cb7693bcf39e4e6b18c4>
DOCUMENT TYPE: Article
SOURCE: Scopus

Lazic L.

Eta model forecasts of tropical cyclones from Australian Monsoon Experiment: Dynamical adjustment of initial conditions

(1993) *Meteorology and Atmospheric Physics*, 52 (3-4) , pp. 101-111. (1 put)
Scopus
EXPORT DATE: 11 January 2012

Betts, A.K., Chen, F., Mitchell, K.E., Janjić, Z.I.
Assessment of the land surface and boundary layer models in two operational versions of the NCEP Eta Model using FIFE data
(1997) Monthly Weather Review, 125 (11), pp. 2896-2916. Cited 111 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-9444260366&partnerID=40&md5=10f429ddc584cb7693bcf39e4e6b18c4>
DOCUMENT TYPE: Article
SOURCE: Scopus

Lazic L.

Forecasts of AMEX tropical cyclones with a step-mountain model

(1990) *Australian Meteorological Magazine*, 38 (3) , pp. 207-215. (2 puta)
Scopus
EXPORT DATE: 11 January 2012

Mesinger, F.
Chapter 13 numerical methods: The Arakawa approach, horizontal grid, global, and limited-area modeling
(2001) *International Geophysics*, 70 (C), pp. 373-419.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77956727135&partnerID=40&md5=8ddf22e1d02e720c6eb6097932797cc1>
DOCUMENT TYPE: Review
SOURCE: Scopus

Betts, A.K., Chen, F., Mitchell, K.E., Janjić, Z.I.
Assessment of the land surface and boundary layer models in two operational versions of the NCEP Eta Model using FIFE data
(1997) Monthly Weather Review, 125 (11), pp. 2896-2916. Cited 111 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-9444260366&partnerID=40&md5=10f429ddc584cb7693bcf39e4e6b18c4>
DOCUMENT TYPE: Article
SOURCE: Scopus

Chen S.-J., Lazic L.

Numerical case study of the Altai-Sayan lee cyclogenesis over East Asia

(1990) *Meteorology and Atmospheric Physics*, 42 (3-4) , pp. 221-229. (2 puta)
Scopus
EXPORT DATE: 11 January 2012

Chen, Q.-S., Bai, L.-S., Bromwich, D.H.
A harmonic-fourier spectral limited-area model with an external wind lateral boundary condition
(1997) Monthly Weather Review, 125 (1), pp. 143-167. Cited 11 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0008728858&partnerID=40&md5=4ad0ed7de29e3296346fbf650e8aa5df>
DOCUMENT TYPE: Article SOURCE: Scopus

Chen, S.J., Zhang, P.-Z.

Climatology of deep cyclones over Asia and the Northwest Pacific

(1996) Theoretical and Applied Climatology, 54 (3-4), pp. 139-146. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0030440283&partnerID=40&md5=5c17e72b72660800ded26ce7ac26c7a4)

0030440283&partnerID=40&md5=5c17e72b72660800ded26ce7ac26c7a4

DOCUMENT TYPE: Article SOURCE: Scopus

Lazic L., Telenta B.

Documentation of the UB/NMC Eta Model

(1990) *Tropical Meteorology Research Programme*, World Meteorological Organization, Geneva,

WMO/TD-No. 366, pp. 304. (19 puta)

Scopus

EXPORT DATE: 11 January 2012

Feister, U., Laschewski, G., Grewe, R.-D.

UV index forecasts and measurements of health-effective radiation

(2011) Journal of Photochemistry and Photobiology B: Biology, 102 (1), pp. 55-68. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-78650909430&partnerID=40&md5=daa826b3c5d435fe58b5c95ee16cbe65)

78650909430&partnerID=40&md5=daa826b3c5d435fe58b5c95ee16cbe65

DOCUMENT TYPE: Article

SOURCE: Scopus

Castelli, S.T., Morelli, S., Anfossi, D., Carvalho, J., Sajani, S.Z.

Intercomparison of two models, ETA and RAMS, with TRACT field campaign data

(2004) Environmental Fluid Mechanics, 4 (2), pp. 157-196. Cited 10 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-4344645690&partnerID=40&md5=1eeb70a1e8417f758614e9dfd333b051)

4344645690&partnerID=40&md5=1eeb70a1e8417f758614e9dfd333b051

DOCUMENT TYPE: Article

SOURCE: Scopus

Accadia, C., Casaioli, M., Mariani, S., Lavagnini, A., Speranza, A., De Venere, A., Inghilesi, R.,

Ferretti, R., Paolucci, T., Cesari, D., Patrino, P., Boni, G., Bovo, S., Cremonini, R.

Application of a statistical methodology for limited area model intercomparison using a bootstrap technique

(2003) Nuovo Cimento della Societa Italiana di Fisica C, 26 (1), pp. 61-77. Cited 7 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0038247990&partnerID=40&md5=390cf84b9b52998bb37da0868038cc99)

0038247990&partnerID=40&md5=390cf84b9b52998bb37da0868038cc99

DOCUMENT TYPE: Article

SOURCE: Scopus

Engeset, R.V., Kohler, J., Melvold, K., Lundén, B.

Change detection and monitoring of glacier mass balance and facies using ERS SAR winter images over Svalbard

(2002) International Journal of Remote Sensing, 23 (10), pp. 2023-2050. Cited 14 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0037140722&partnerID=40&md5=be37cce3f670f93140c6eff5e24f5629)

0037140722&partnerID=40&md5=be37cce3f670f93140c6eff5e24f5629

DOCUMENT TYPE: Article

SOURCE: Scopus

Deserti, M., Cacciamani, C., Golinelli, M., Kerschbaumer, A., Leoncini, G., Savoia, E., Selvini, A.,

Paccagnella, T., Tibaldi, S.

Operational meteorological pre-processing at Emilia-Romagna ARPA meteorological service as a part of a decision support system for air quality management

(2001) International Journal of Environment and Pollution, 16 (1-6), pp. 571-582. Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0035567926&partnerID=40&md5=147015108972f9617676adaeacd35fea)

0035567926&partnerID=40&md5=147015108972f9617676adaeacd35fea

DOCUMENT TYPE: Article SOURCE: Scopus

Potty, K.V.J., Mohanty, U.C., Raman, S.
Simulation of boundary layer structure over the Indian summer monsoon trough during the passage of a depression

(2001) *Journal of Applied Meteorology*, 40 (7), pp. 1241-1254. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0035388793&partnerID=40&md5=8f2ec5d6903a17f768d71c9cf9e73248)

0035388793&partnerID=40&md5=8f2ec5d6903a17f768d71c9cf9e73248

DOCUMENT TYPE: Article SOURCE: Scopus

Arpe, K., Bengtsson, L., Golitsyn, G.S., Mokhov, I.I., Semenov, V.A., Sporyshev, P.V.
Connection between Caspian Sea level variability and ENSO

(2000) *Geophysical Research Letters*, 27 (17), pp. 2693-2696. Cited 40 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0034352610&partnerID=40&md5=4295d5a169fa6a813b068b262d7e9200)

0034352610&partnerID=40&md5=4295d5a169fa6a813b068b262d7e9200

DOCUMENT TYPE: Article

SOURCE: Scopus

Stortini, M., Morelli, S., Marchesi, S.

Modelling study of mesoscale cyclogenesis over Ross Sea, Antarctica, on February 18, 1988

(2000) *Nuovo Cimento della Societa Italiana di Fisica C*, 23 (2), pp. 147-163. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-2242460523&partnerID=40&md5=1f0f4ca34e26a99e862dc44b3ac865a9)

2242460523&partnerID=40&md5=1f0f4ca34e26a99e862dc44b3ac865a9

DOCUMENT TYPE: Article

SOURCE: Scopus

Arpe, K., Bengtsson, L., Golitsyn, G.S., Mokhov, I.I., Semenov, V.A., Sporyshev, P.V.
Analysis and modeling of the hydrological regime variations in the Caspian Sea basin

(1999) *Doklady Earth Sciences*, 366, pp. 552-556. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0033246499&partnerID=40&md5=a8a08306a5625e38c71c7ad08e434779)

0033246499&partnerID=40&md5=a8a08306a5625e38c71c7ad08e434779

DOCUMENT TYPE: Article

SOURCE: Scopus

Malguzzi, P., Tartaglione, N.

An economical second-order advection scheme for numerical weather prediction

(1999) *Quarterly Journal of the Royal Meteorological Society*, 125 (558), pp. 2291-2303. Cited 32 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032695414&partnerID=40&md5=b4929e12e09025eab1bc7dbf2045e43d)

0032695414&partnerID=40&md5=b4929e12e09025eab1bc7dbf2045e43d

DOCUMENT TYPE: Article

SOURCE: Scopus

Mahmud, M.

The Eta Model Stimulation of Weather Conditions over the Southeast Asian Region

(1998) *Malaysian Journal of Tropical Geography*, 29 (2), pp. 105-111.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0348134853&partnerID=40&md5=7ff73484e4cdee01633c507f6593411e)

0348134853&partnerID=40&md5=7ff73484e4cdee01633c507f6593411e

DOCUMENT TYPE: Article

SOURCE: Scopus

Tayanç, M., Karaca, M., Dalfes, H.N.

March 1987 cyclone (blizzard) over the eastern Mediterranean and Balkan region associated with blocking

(1998) *Monthly Weather Review*, 126 (11), pp. 3036-3047. Cited 10 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0033031637&partnerID=40&md5=2092477da6ac874f121cd42e3c94a9eb)

0033031637&partnerID=40&md5=2092477da6ac874f121cd42e3c94a9eb

DOCUMENT TYPE: Article

SOURCE: Scopus

Ruti, P.M., Bargagli, A., Cacciamani, C., Paccagnella, T., Cassardo, C.

LAM simulations of present-day climate with observed boundary conditions: performance analysis

over the northern Italy

(1998) Contributions to Atmospheric Physics, 71 (3), pp. 321-346.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032439722&partnerID=40&md5=1ac765ee317d36c3b3b212e860ce3b13)

0032439722&partnerID=40&md5=1ac765ee317d36c3b3b212e860ce3b13

DOCUMENT TYPE: Article

SOURCE: Scopus

Hernández, E., De Las Parras, J., Martín, I., Rúa, A., Gimeno, L.

A field case study and numerical simulation of mountain flows with weak ambient winds

(1998) Journal of Applied Meteorology, 37 (6), pp. 623-637. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-11644276033&partnerID=40&md5=29151f414bf16ce6937b0bcbce3c929)

11644276033&partnerID=40&md5=29151f414bf16ce6937b0bcbce3c929

DOCUMENT TYPE: Article

SOURCE: Scopus

Karaca, M., Dobricic, S.

Modeling of summertime meso- β scale cyclone in the Antalya Bay

(1997) Geophysical Research Letters, 24 (2), pp. 151-154. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0030835102&partnerID=40&md5=9c17a6803f783f0ba4bb4fbadae4c820)

0030835102&partnerID=40&md5=9c17a6803f783f0ba4bb4fbadae4c820

DOCUMENT TYPE: Article

SOURCE: Scopus

Potty, K.V.J., Mohanty, U.C., Raman, S.

Effect of three different boundary-layer parameterisations in a regional atmospheric model on the simulation of summer monsoon circulation

(1997) Boundary-Layer Meteorology, 84 (3), pp. 363-381. Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0031402632&partnerID=40&md5=c46df9f0c922b6be83b922b44be705f1)

0031402632&partnerID=40&md5=c46df9f0c922b6be83b922b44be705f1

DOCUMENT TYPE: Article

SOURCE: Scopus

Cavaleri, L., Bertotti, L., Pedulli, L., Tibaldi, S., Tosi, E.

Wind evaluation in the Adriatic Sea

(1996) Nuovo Cimento della Societa Italiana di Fisica C, 19 (1), pp. 51-66. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0040797930&partnerID=40&md5=d4a93b6f81d0108fa403e11e391fb57b)

0040797930&partnerID=40&md5=d4a93b6f81d0108fa403e11e391fb57b

DOCUMENT TYPE: Article

SOURCE: Scopus

Cavaleri, L., Bergamasco, L., Bertotti, L., Bianco, L., Drago, M., Iovenitti, L., Lavagnini, A., Liberatore, G., Martorelli, S., Mattioli, F., Osborne, A.R., Pedulli, L., Ridolfo, R., Sclavo, M., Serio, M., Tescaro, N., Tibaldi, S., Tosi, E., Viezzoli, D.

Wind and waves in the Northern Adriatic Sea

(1996) Nuovo Cimento della Societa Italiana di Fisica C, 19 (1), pp. 1-36. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0039019644&partnerID=40&md5=f198e4d2f85429c179134bdc0fcf3dcc)

0039019644&partnerID=40&md5=f198e4d2f85429c179134bdc0fcf3dcc

DOCUMENT TYPE: Article

SOURCE: Scopus

7. Mišljenje referenata

Na osnovu svega izloženog smatramo da su ispunjeni uslovi Zakona o visokom obrazovanju i Statuta Fizičkog fakulteta Univerziteta u Beogradu, te stoga, kao i na osnovu ličnog poznavanja kandidata

predlažemo

Nastavno-naučnom veću i Dekanu Fizičkog fakulteta da ponovo izabere prof. dr Lazara Lazića u zvanje vanrednog profesora za užu naučnu oblast Sinoptička meteorologija u Institutu za meteorologiju Fizičkog fakulteta Univerziteta u Beogradu.

11.01.2012.
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