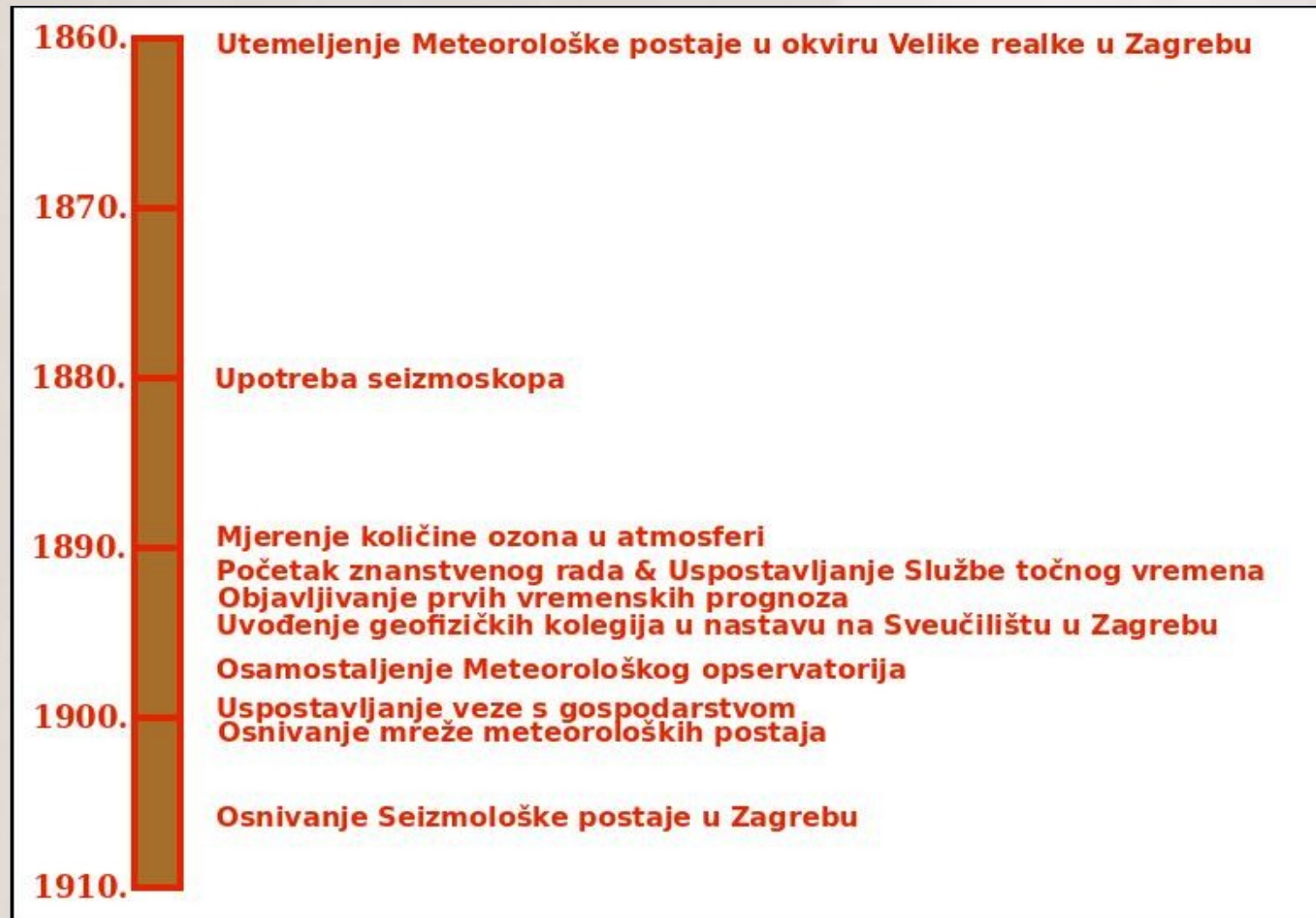
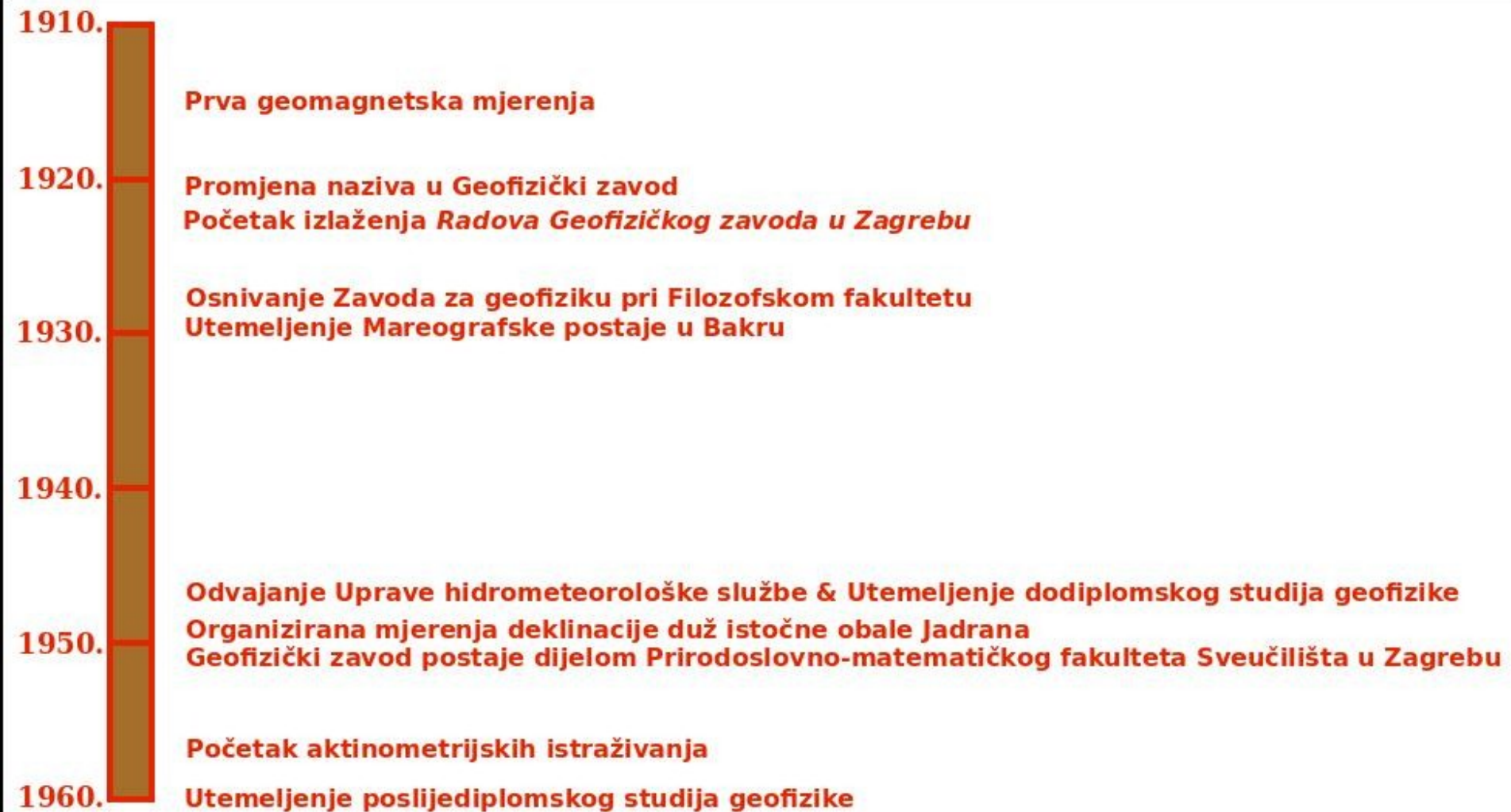


Nulla dies sine observatione
150 godina Geofizičkog zavoda
u Zagrebu (1861.–2011.)



Kronologija





1960.

1970.

1980.

1990.

2000.

2010.

**Prva mjerenja kiselosti oborine
Započeli prvi veliki međunarodni projekti**

Dovršenje nove zgrade Geofizičkog zavoda

**Utemeljenje časopisa *Geofizika*
Osnivanje Seizmološke služba Republike Hrvatske
Opservatorij Zagreb-Grič predan je Državnom hidrometeorološkom zavodu**

Započela mjerenja ultraljubičastog zračenja

**Organizirana prva mjerenja atmosferske turbulencije
Organizirana prva mjerenja na otvorenom Jadranu
Obnovljena geomagnetska istraživanja
Organizirana intenzivna mjerenja mikroseizmičkog nemira i gibanja građevina
Studij geofizike usklađen je sa zahtjevima Bolonjskog procesa & Uređene
Memorijalne prostorije A. Mohorovičića**

Dodiplomska nastava

Kralj. hrvatsko-slavonsko-dalmatinska zemaljska vlada,
odjel za bogoštovje i nastavu.

Broj 10.855
God. 1894.

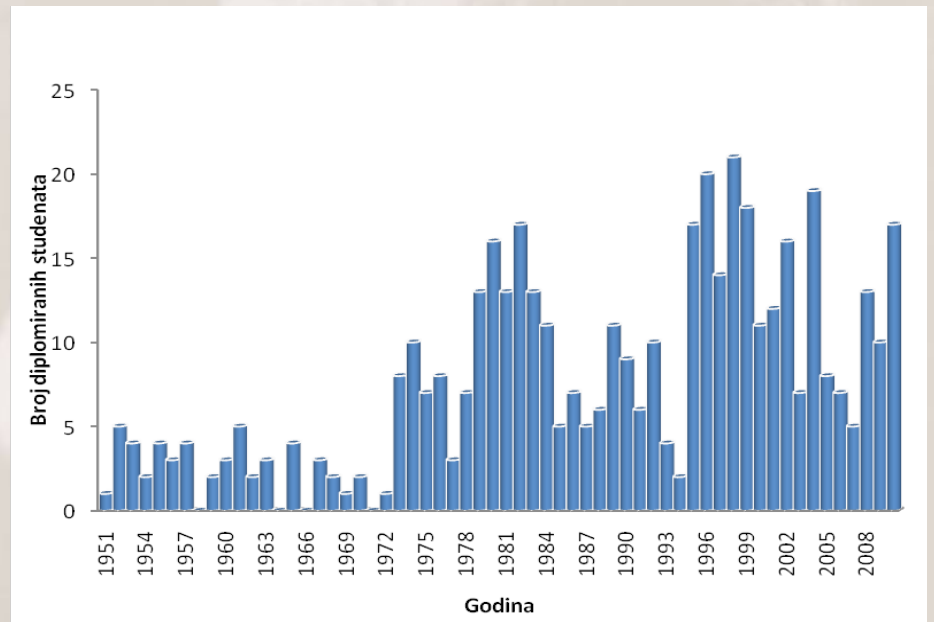
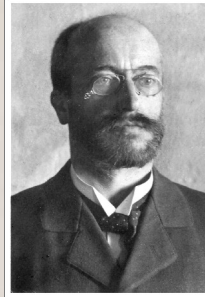
U odpravnitvo dne 26. 8. 1894
Prepisao Prilić
Spravnao in. G. 27/8. 2004/21
Odpravljeno dne 28. 8. 7. 1894
U pismaru dne 29. 8. 1894

Primlj. 3 god.
Dan 216 god. 1894.
Broj 223

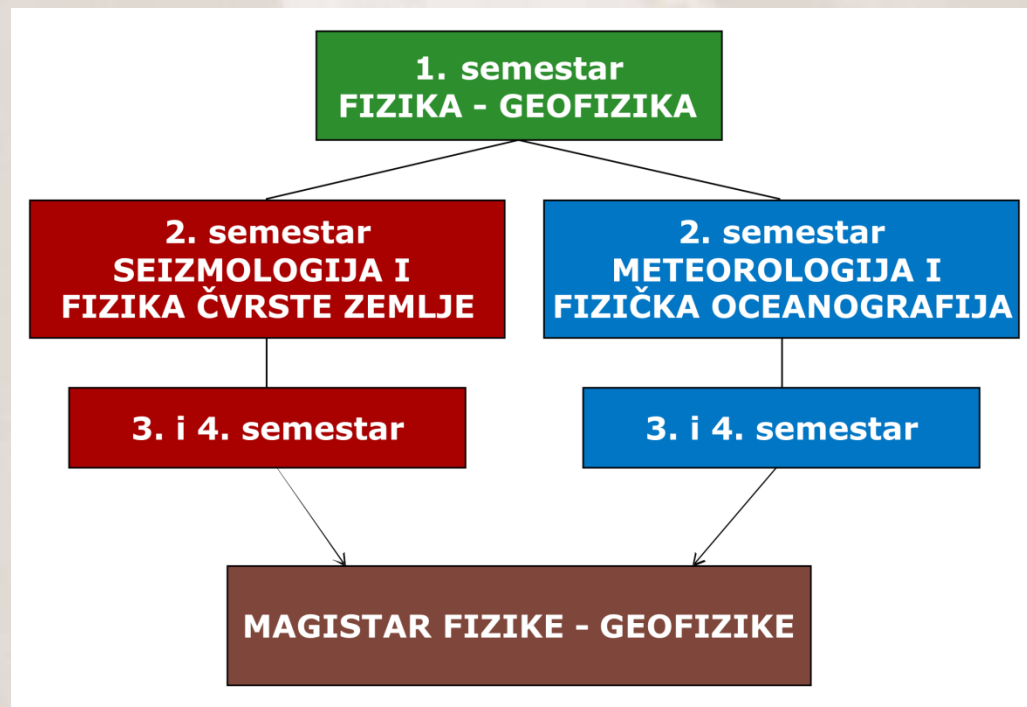
Školanat mudroslovnoga fakulteta K. sveučilišta Franje Josipa I. u Zagrebu, da se profesor K. velike realko na zagrebačke d. = Andri Mohorović, čiču posređi, venia legendi kao privatnom docentu iz meteorologije.

Školanat mudroslovnoga fakulteta K. sveučilišta Franje Josipa I. u Zagrebu. Na predlog profesora škole mudroslovnoga fakulteta K. sveučilišta Franje Josipa I. u Zagrebu molimo na temelju čl. 26. zakona od 17. 1894. o ustrojstvu klasičnoga sveučilišta i škole b. o. ovjerenje na redbe od 13/4 br. 651. o habilitaciji privatnih docenata, upi hovu položaju, službovanju i pravih na istom sveučilištu po službi profesorom K. velike realko zagrebačke d. = Andriji Mohoroviću namoženom da xvolu na predavanje (veniam legendi) meteorologije. Inzoni iseljenoga time izvješća od 2. 12. 1893. vraca se se tomu po radi daljega uređenja za pririvom, da o go. ujoj dozvoli primenu slavnosti d. = Andriji Mohoroviću.

U nekoliko se traži prava prečista,



Struktura preddiplomskog i diplomskog studija



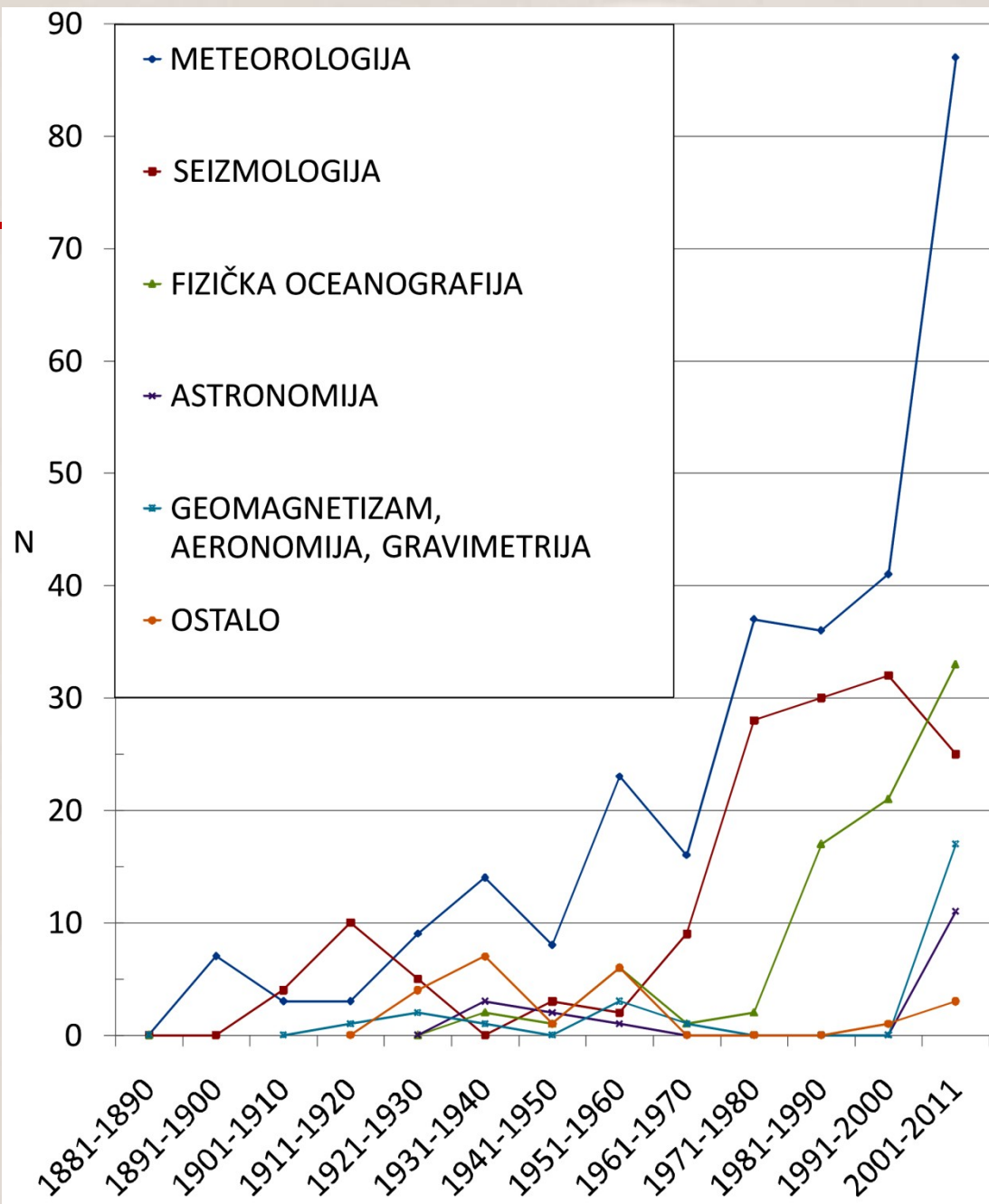
Doktorske disertacije



Ime i prezime	Naslov	Godina	Mentor
Andrija Mohorovičić	Rezultati opažanja oblaka u Bakru	1893.	
Stjepan Škreb	Utjecaj zemaljske rotacije na gibanja atmosfere	1909.	
Stjepan Mohorovičić	Aerologijske studije iz Kotorskoga zaljeva uz neke općene primjedbe	1918.	
Branimir Marković	Mikroseizmički nemir u Zagrebu	1944.	S. Škreb
Josip Mokrović	Zagrebačke hodohrone prostornih seizmičkih valova za potrese normalnih dubina	1951.	J. Goldberg
Branko Maksić	Atmosferska vlaga u specijalnim uvjetima i njeno mjerenje	1952.	J. Goldberg
Marijan Kasumović	Utjecaj atmosfere na kolebanje razine Jadranskog mora	1957.	J. Goldberg
Berislav Makjanić	Obalni sistem cirkulacije u dnevnom periodu. Prilog matematičkoj teoriji i analiza pojava u primorju Jugoslavije	1958.	J. Goldberg
Dražen Poje	Glavni tipovi vremena u Jugoslaviji i njihova zavisnost o visinskim strujanjima	1965.	B. Maksić
Branka Penzar	Mehanizam opće cirkulacije atmosfere ljeti nad Jugoslavijom	1969.	B. Makjanić
Dragutin Skoko	Prilog određivanju magnitude potresa	1969.	J. Mokrović

Znanstvena istraživanja

Ukupno:
oko 600 znanstvenih
i preglednih radova

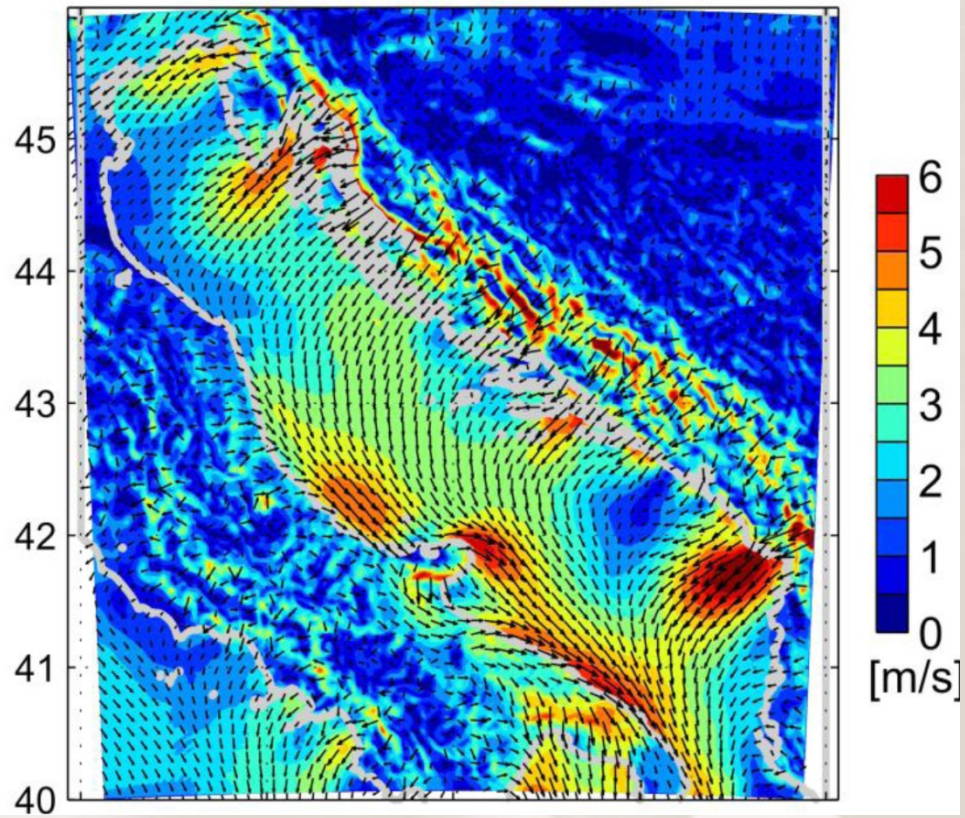
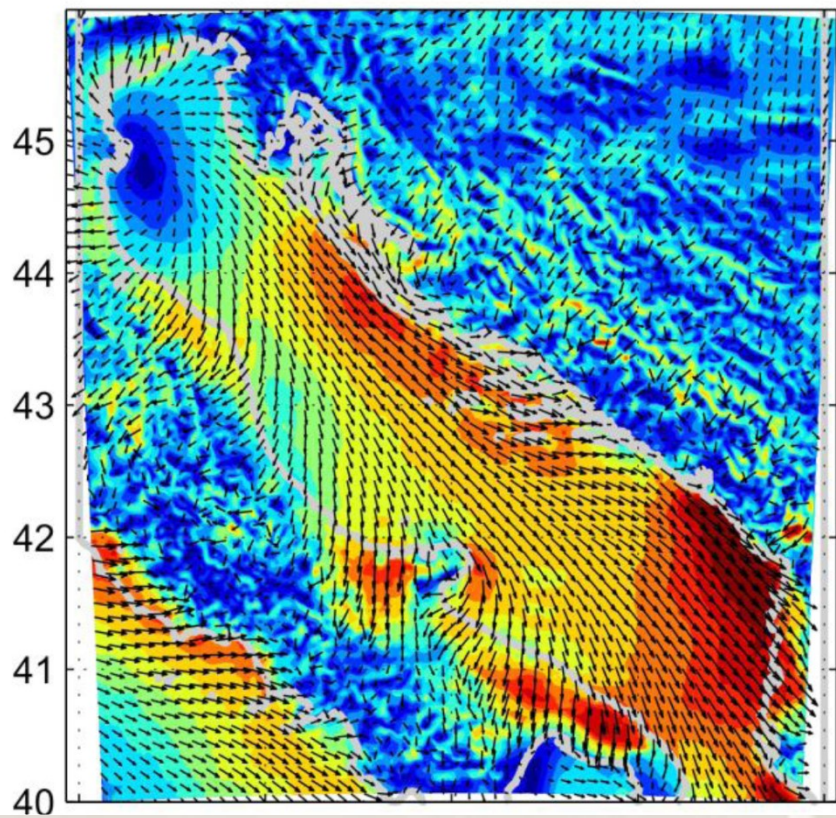


Meteorologija s klimatologijom

1893.

Novska, 1892.





2009.

Fizička oceanografija

1938.

Vrijednost perioda		Fizikalno značenje oscilacije
po motrenju	po teoriji	
$6,0^h \pm 0,1^h$	$5,85^h - 6,68^h$	Osnovni seš Prvi parcijalni seš
$2,1^h \pm 0,1^h$	$2,07^h; 2,03^h$	
$24,0^m$	$23,6^m - 25,0^m$	Osnovni seš sa čvornom linijom Lipica - Molnarić
$22^m; 22,0^m$	—	
$20,0^m$	$19,7^m - 21,2^m$	Superpozicija seša s periodima $24,0^m$ i $20,0^m$
$8,5^m$	$> 8,2^m; < 9,5^m$	Osnovni seš sa čvornom linijom Rt Oštro — Rt Sršćica
$8,0^m$	$8,2^m$	
01^m	$7,75^m; 8,25^m$	Prvi parcijalni seš uz osnovni 22^m Prvi parcijalni seš uz osnovni $20,0^m$
04^m	$4,36^m; 4,45^m$	
01^m	$2,00^m; 2,1^m$	Osnovni, 1-nodalni seš
00^m	$1,69^m$	
03^m	$1,29^m$	2-nodalni seš
07^m	$1,16^m$	
02^m	$0,88^m - 0,97^m$	3-nodalni seš
	—	
	—	4-nodalni seš
	—	
	—	5-nodalni seš
	—	
	—	6-nodalni seš
	—	
	—	7-nodalni seš
	—	
	—	8-nodalni seš
	—	
	—	9-nodalni seš
	—	
	—	Lateralna oscilacija u Bakru između presjeka 1 i 2
	—	
	—	13-nodalni seš
	—	
	—	14-nodalni seš
	—	
	—	21-nodalni seš
	—	

Kvarnerskog
Zavalja

Cijelog
Bakarskog
Zaljeva

Unutrašnjeg
korita

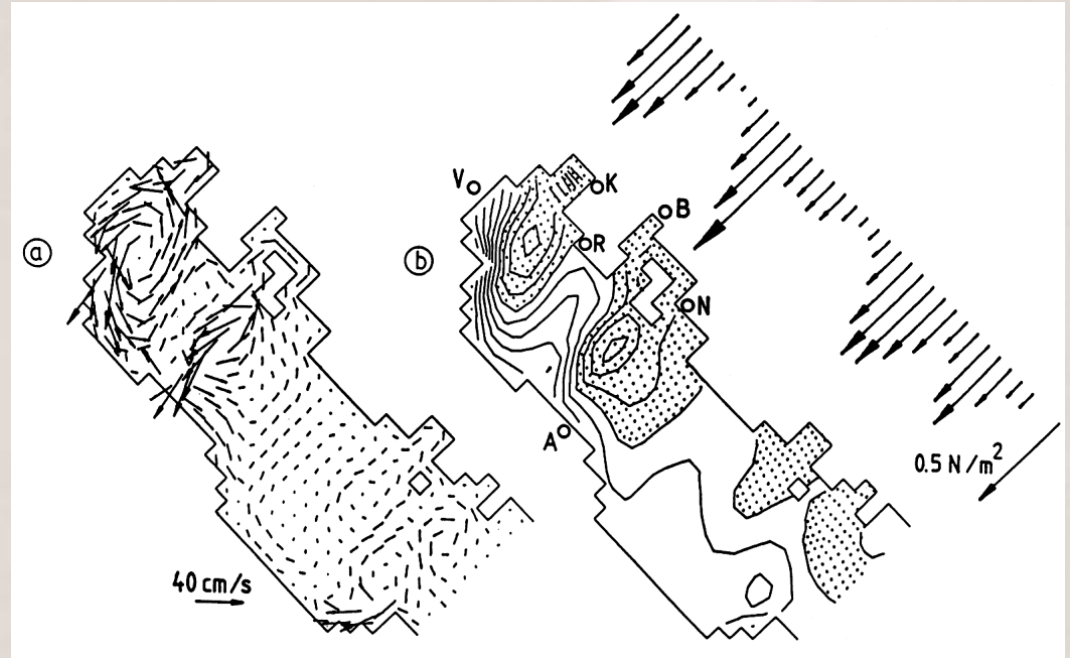
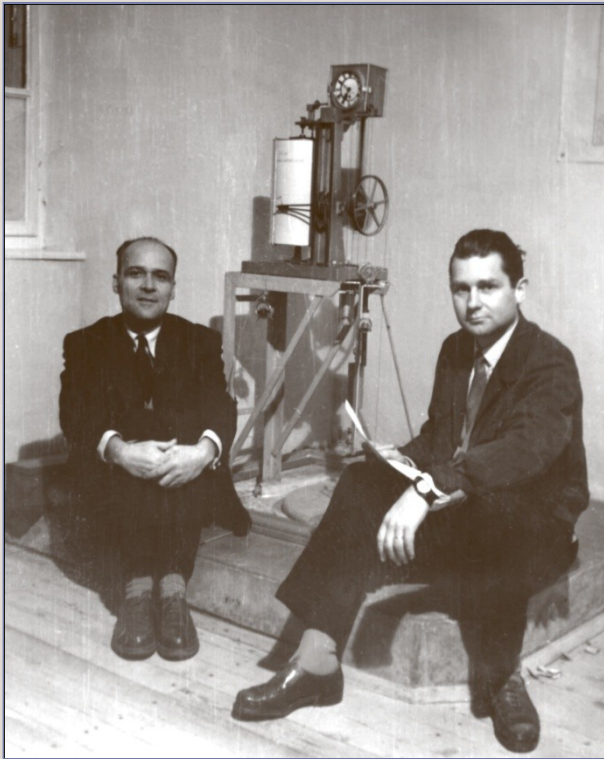
Unutrašnjeg
korita

Bakarski zaljev, 1936.



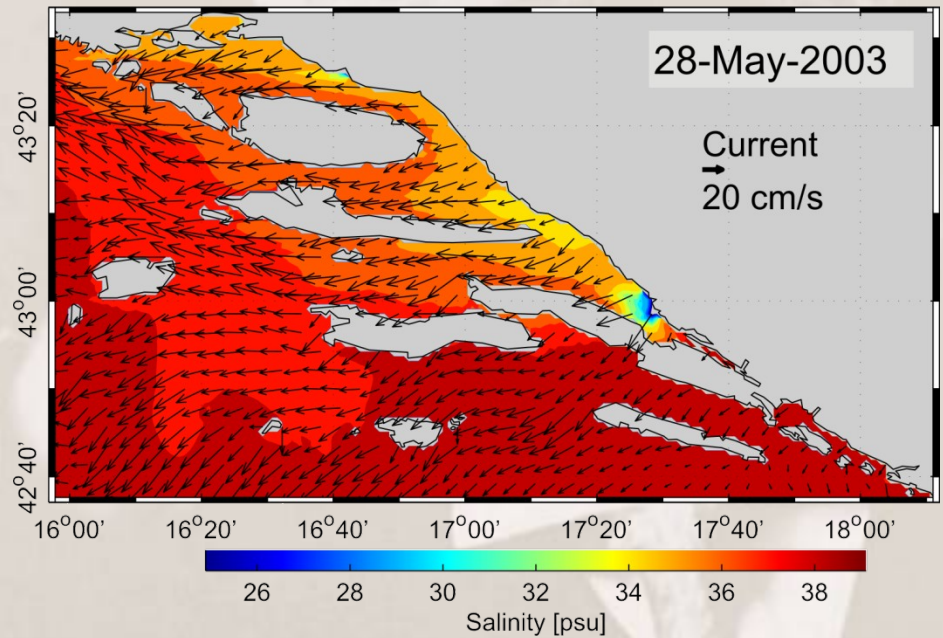
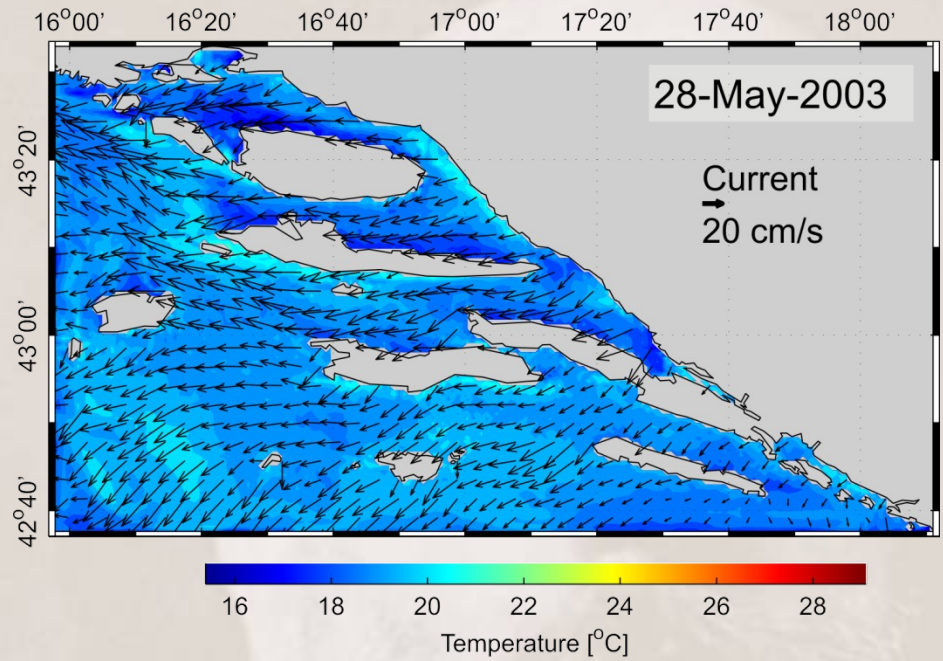
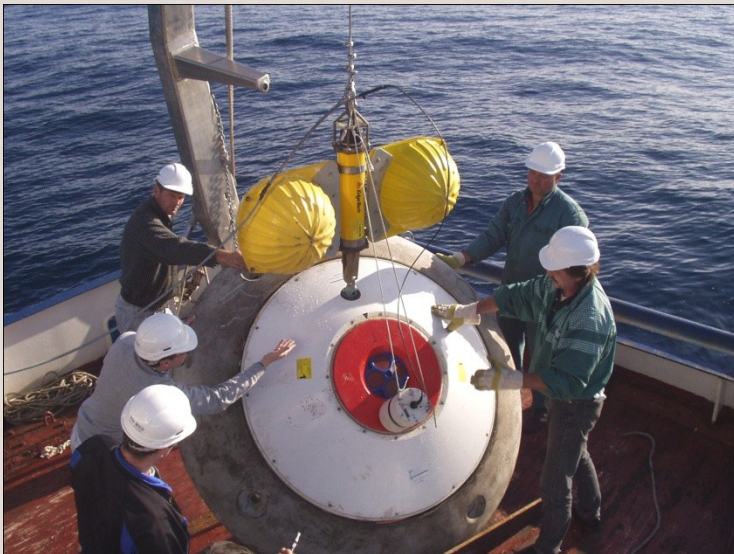
1994.

Bakar, 1960-ih godina

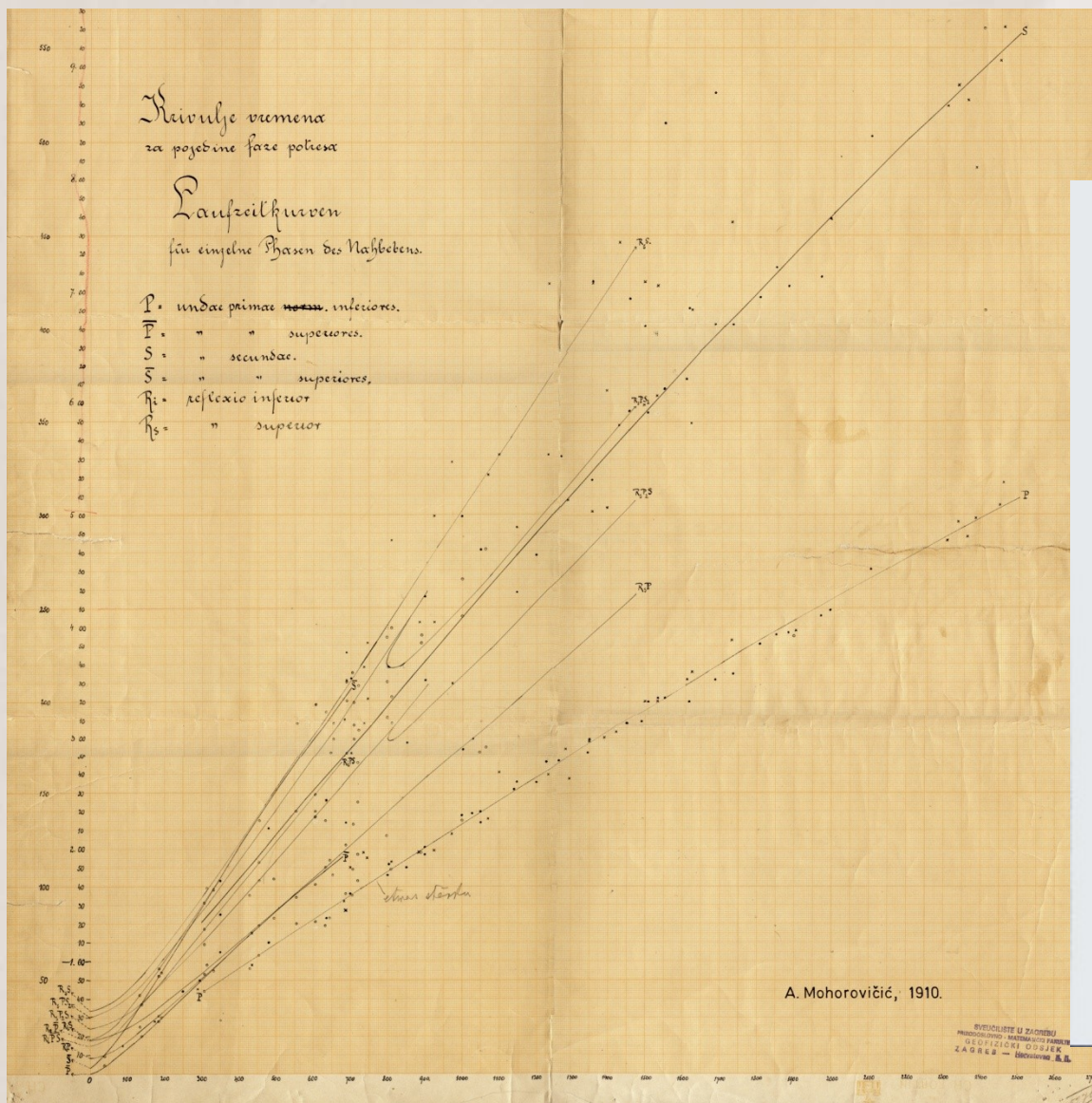


2006.

Otvoreni Jadran, 2002.



Seizmologija i fizika unutrašnjosti Zemlje



1910.

GODIŠNJE IZVJEŠĆE ZAGREBAČKOG METEOROLOŠKOG OPSERVATORIJA

ZA GODINU 1909.

GODINA IX.

DIO IV. — POLOVINA I.

POTRES OD 8. X. 1909.

NAPIŠAO

D^r. A. MOHOROVIČIĆ.

JAHRBUCH DES METEOROLOGISCHEN OBSERVATORIUMS

IN
ZAGREB (AGRAM)

FÜR DAS JAHR 1909.

JAHRGANG IX.

IV. THEIL — ABSCHNITT I.

DAS BEBEN VOM 8. X. 1909.

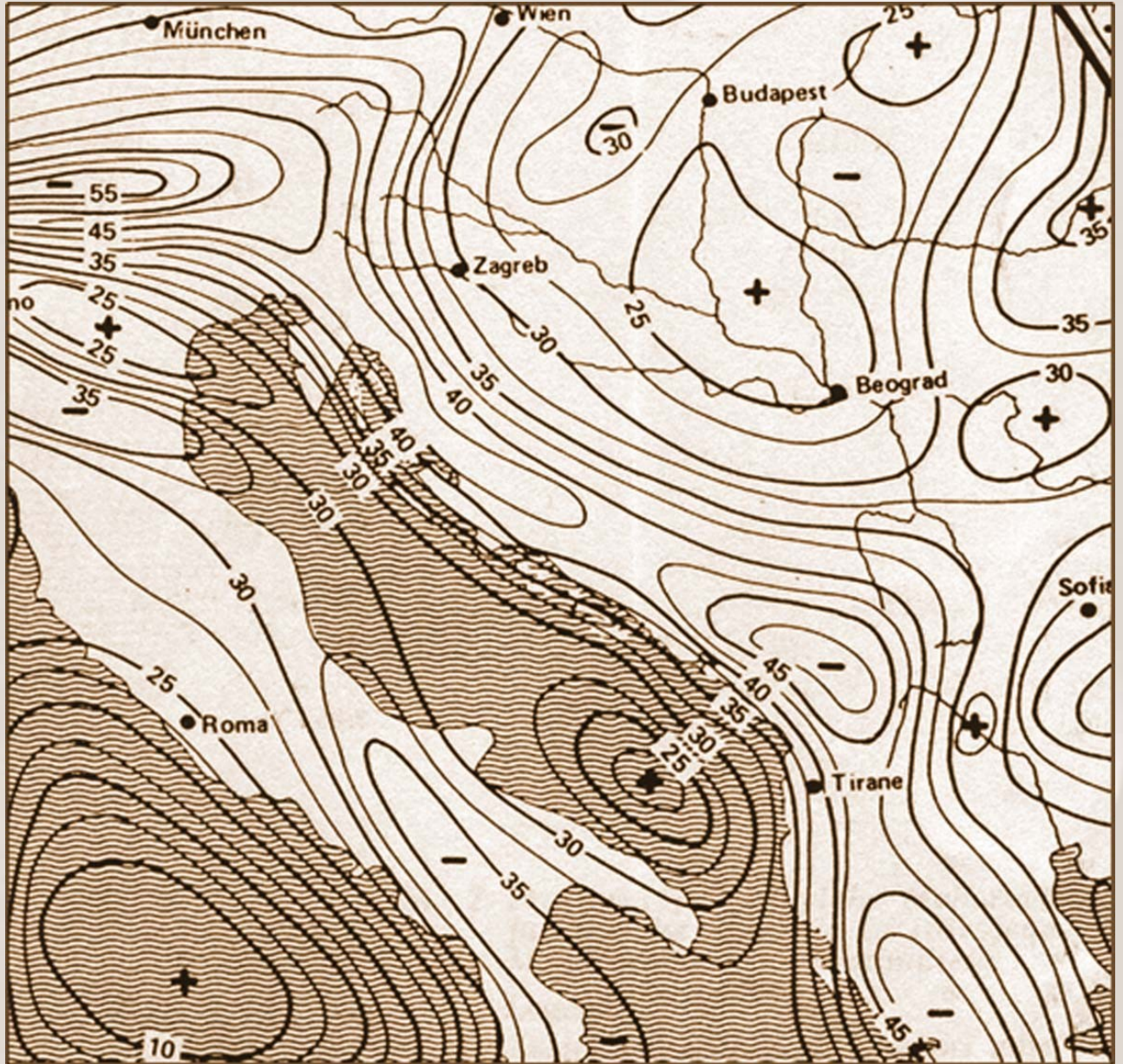
VON

D^r. A. MOHOROVIČIĆ.

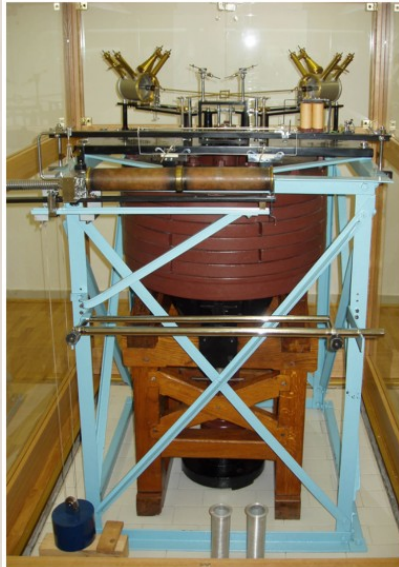


ZAGREB 1910.

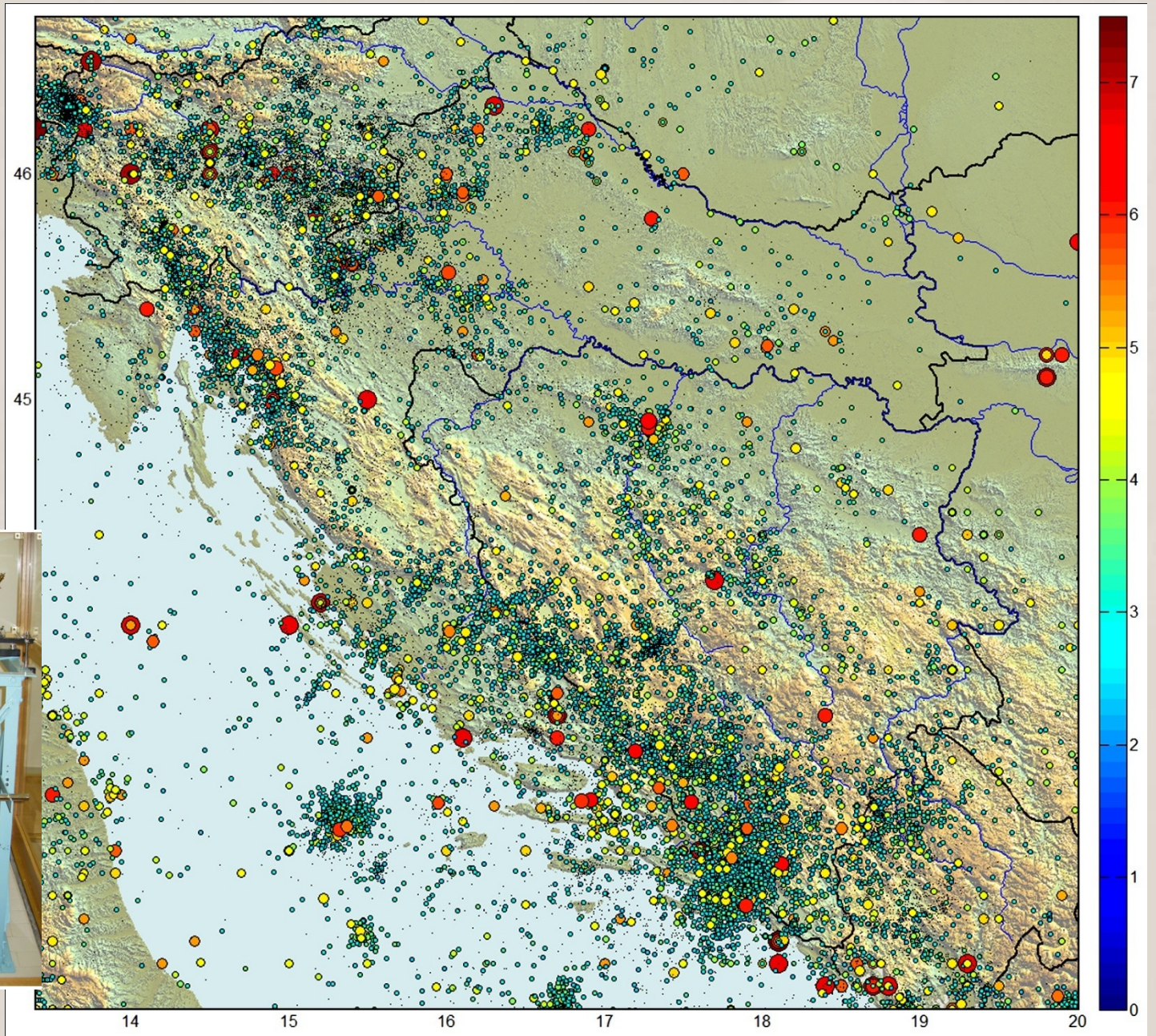
NAKLADA 25. HET-SLAT, DALM. SKM, VLADE, OSKLA ZA EKOLOGIJE I NASTAVU
TISKARA I LITOGRAFIJA C. ZEBELIČEVA



1987.



1996.

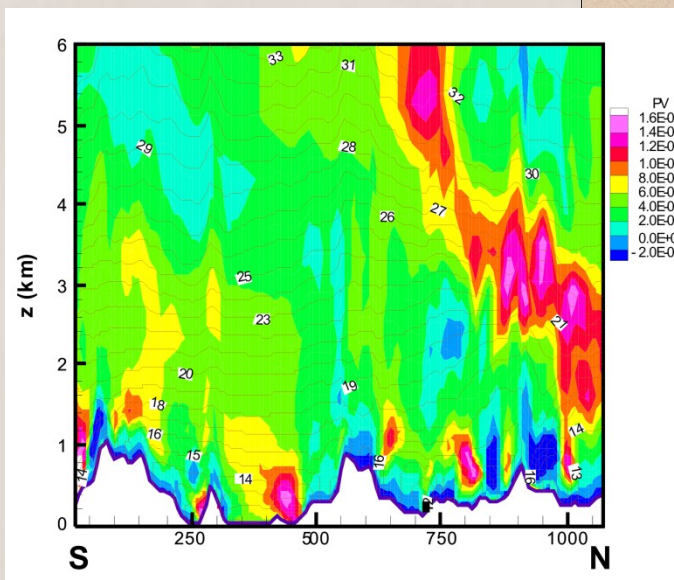


Geomagnetizam i aeronomija

2003.



Jabuka, 1949.

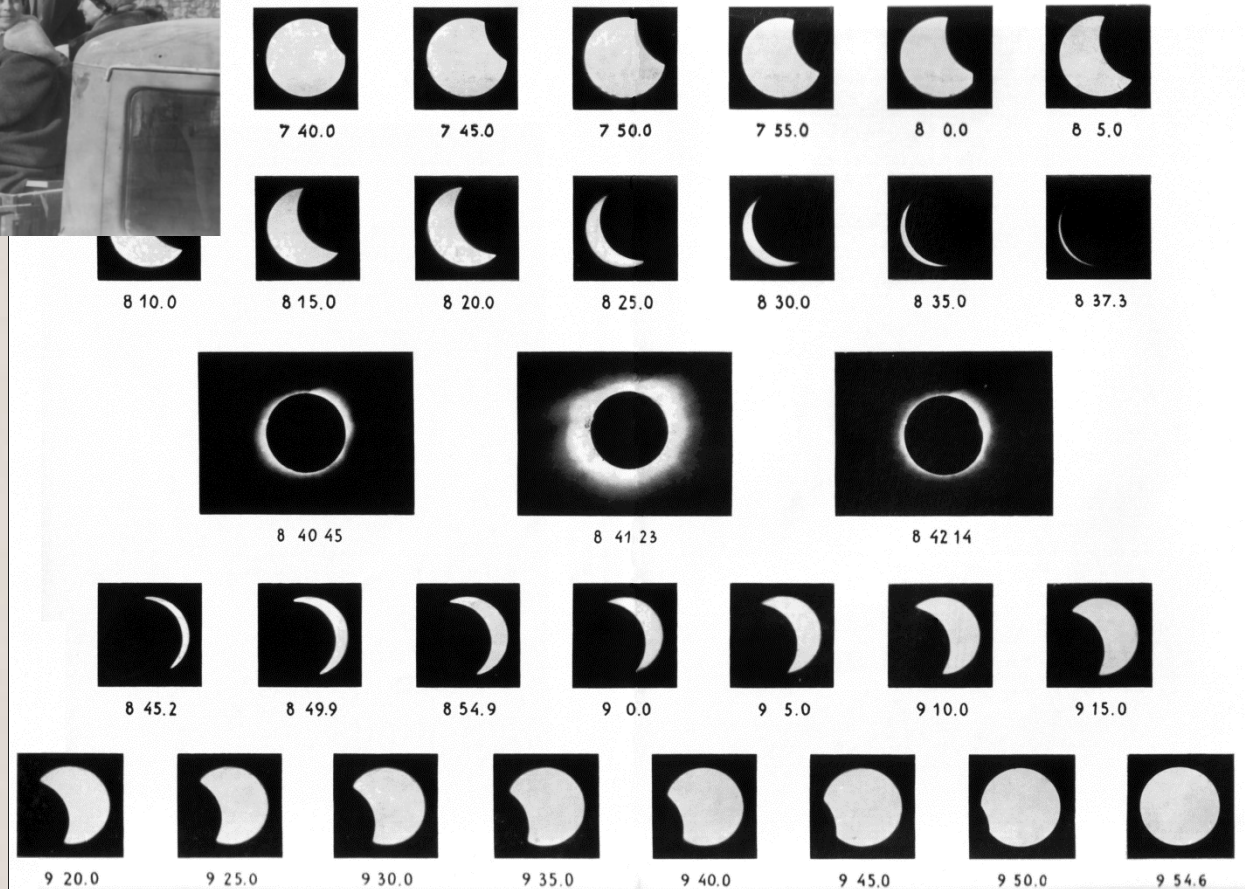


Astronomija



Hvar, 1961.

1967.



Poznati hrvatski znanstvenici

The New Encyclopædia Britannica

Prelog, Vladimir (b. July 23, 1906, Sarajevo, Bosnia, Austria-Hungary [now in Bosnia and Herzegovina]), Swiss chemist who shared the 1975 Nobel Prize for Chemistry with John W. Cornforth for studies in the stereochemistry of organic molecules and reactions. This work proved to be of fundamental importance to an understanding of biological processes.

Prelog was educated at the Institute Technical School of Chemistry in Prague, receiving his doctorate in 1929. After several years in a commercial laboratory, he began teaching at the University of Zagreb in 1935, first as a lecturer and later as professor of organic chemistry. In 1942 he joined the faculty of the Federal Institute of Technology in Zürich, where he served as head of the laboratory of organic chemistry from 1957 to 1965; he retired from teaching in 1976.

Prelog's research extended to the stereochemistry of alkaloids, antibiotics, enzymes, and other natural compounds. In particular he contributed to the understanding of stereoisomerism; with R.S. Cahn and C.K. Ingold, he developed a generally used system for specifying the chirality of molecules.

Ružička, Leopold (Stephen) (b. Sept. 13, 1887, Vukovar, Croatia, Austria-Hungary [now in Croatia]—d. Sept. 26, 1976, Zürich, Switz.), Swiss chemist and joint recipient, with Adolf Butenandt of Germany, of the 1939 Nobel Prize for Chemistry for his work on molecules and on the terpenes, a class of carbon molecules found in the essential oils of plants.

Interested in the German chemist Hermann Staudinger, Ružička investigated the synthesis of the insecticides in pyrethrum (1936). Accompanying Staudinger to the Institute of Technology in Zürich, he became a Swiss citizen and lectured at the University of Zürich. In 1926 he became professor of organic chemistry at the University of Utrecht in the Netherlands, and three years later he moved to Switzerland to become professor of chemistry at the Federal Institute of Technology in Zürich.

Ružička's investigations of natural odoriferous compounds, begun in 1916, culminated in the discovery that the molecules of muskone, a natural odoriferous compound of musk, are bicyclic in structure. Before this discovery, rings with eight atoms had been unknown and had been believed to be too unstable to exist. Ružička's discovery greatly expanded the field of natural products. In the mid-1930s he discovered the molecular structure

of several male sex hormones, notably testosterone, and subsequently synthesized them.

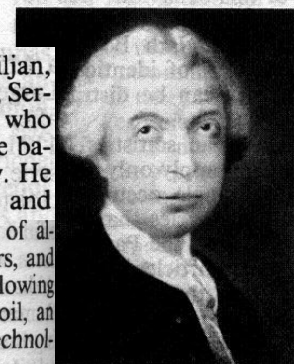
Tesla, Nikola (b. July 9/10, 1856, Smiljan, Croatia—d. Jan. 7, 1943, New York City), Serbian-American inventor and researcher who discovered the rotating magnetic field, the basis of most alternating-current machinery. He emigrated to the United States in 1884 and sold the patent rights to his system of alternating-current dynamos, transformers, and motors to George Westinghouse the following year. In 1891 he invented the Tesla coil, an air-core transformer that produces a high-voltage, high-frequency alternating current, which is used widely in radio technology.

Tesla was from a family of Serbian Orthodox priests; his father was an Orthodox priest; his mother was unschooled but highly intelligent, with a poetic touch, as he matured from these earlier qualities those of a poet and a desire for precision.

After an engineering career, he attended the Technical University at Graz, Austria, and the University of Prague. At Graz he designed the Gramme dynamo, which operated as a generator and, when reversed, became a motor, and he conceived a way to transmit electric current to advantage. Later, at the University of Colorado, he visualized the principle of the rotating magnetic field and developed plans for a synchronous motor that would become a major contribution toward the successful utilization of alternating current. In 1882 Tesla went to Paris for the Continental Edison Exposition, while on assignment to Strassburg. In 1883, he constructed, in after-work hours, the first induction motor. Tesla sailed for New York in 1884, arriving in New York City with a few of his own inventions in his pocket, a few of his own calculations for a flying machine, and employment with Thomas Edison. He and two inventors were far apart in their methods, and their separation was inevitable.

Boscovich, Ruggero Giuseppe, Serbo-Croatian astronomer and mathematician who gave the first geometric procedure for determining the equator of a rotating planet (b. May 18, 1711, Ragusa, Dalmatia, Venetian territory [now Dubrovnik, Croatia]—d. Feb. 13, 1787, Milan [Italy]).

astronomer and mathematician who gave the first geometric procedure for determining the equator of a rotating planet



Detail of a portrait by an unknown artist; in Dubrovnik Cloister, Croatia. Source: *Journal of the American Chemical Society*, 1911, 33, 1000. Reprinted by permission of the American Chemical Society.

three observations of a surface feature for computing the orbit of a planet from observations of its position.

Boscovich's father was a Serb (converted to Eastern Orthodoxy to Roman Catholicism), and his mother was Italian. He entered the Society of Jesus (Jesuits) in 1726 and studied mathematics and physics at the Collegium nanum, Rome, where he was appointed professor of mathematics in 1740. One of the scientists of continental Europe to accept Newton's gravitational theory, he published nearly 70 papers on optics, astronomy, geodesy, meteorology, and trigonometry. Boscovich was a pioneer in geodesy, the science concerned with the size and shape of the Earth; he measured a meridian arc between Rome and Florence, Italy, in 1750 in order to test his theory of the shape of the Earth. He accepted a chair of mathematics at the University of Padua in 1764 and also served as director of the Brera Observatory in Milan. In 1769 he was invited to lead an expedition to California to observe a transit of Venus but the offer was declined because of Spanish bias against the Jesuits. When the Jesuits were suppressed in 1773, Boscovich accepted an invitation from King Louis XV of France to settle in Paris as director of optics for the navy. He returned to Italy in 1783.

Andrija Mohorovičić

The New Encyclopædia Britannica

Volume 1

MICROPEDIA

Ready Reference

FOUNDED 1768
15 TH EDITION



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Mohorovičić, Andrija (b. Jan. 23, 1857, Volosko, Croatia, Austrian Empire [now in Croatia] d. Dec. 18, 1936, Zagreb, Yugos.), Croatian meteorologist and geophysicist who discovered the boundary between the Earth's crust and mantle—a boundary subsequently named the Mohorovičić discontinuity.

The son of a shipyard carpenter, he was a precocious youth and by the age of 15 spoke not only Croatian but English, French, and Italian, to which he later added Latin and Greek as well as Czech and German. He studied under the physicist and philosopher Ernst Mach at the University of Prague. He was graduated in mathematics and physics (1875). After teaching in a secondary school for seven years, he received an appointment to the Royal Nautical School at Bakar, Rijeka. He taught meteorology and geophysics, and he established a meteorological station there in 1887. In 1891 he became a professor at the Main Technical School in Zagreb, where he continued his studies and was named director of the meteorological observatory there in 1892, and he received his doctorate from the University of Zagreb in 1893. As early as 1908 Mohorovičić had begun work in acquiring new and improved seismic instruments.

Prag, 2011.



CHORVATSKÝ GEOFYZIK,
KTERÝ ROKU 1910 ODJEVIL
ROZHRANÍ MEZI ZEMSKOU
KŮROU A SVRCHNÍM
PLÁŠTĚM. STUDOVAL ZDE
V KLEMENTINU
NA UNIVERZITĚ KARLOVĚ
V PRAZE V LETECH
1875 AŽ 1878.

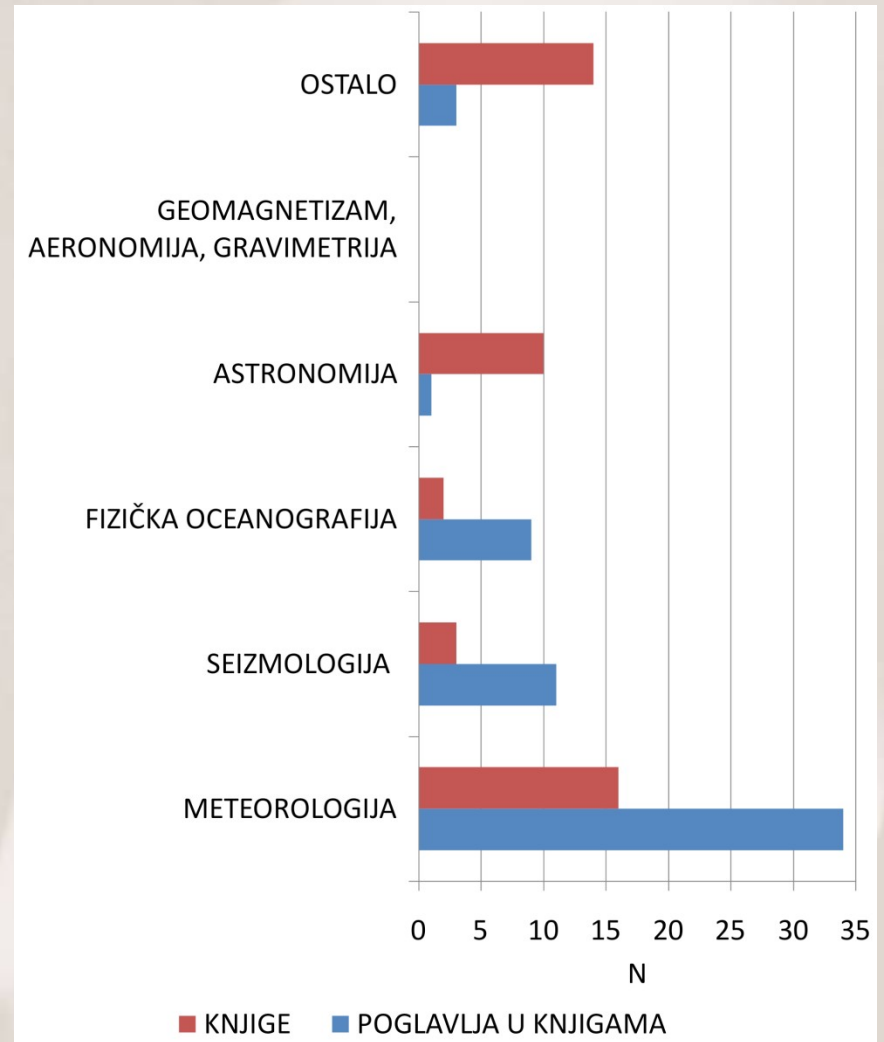
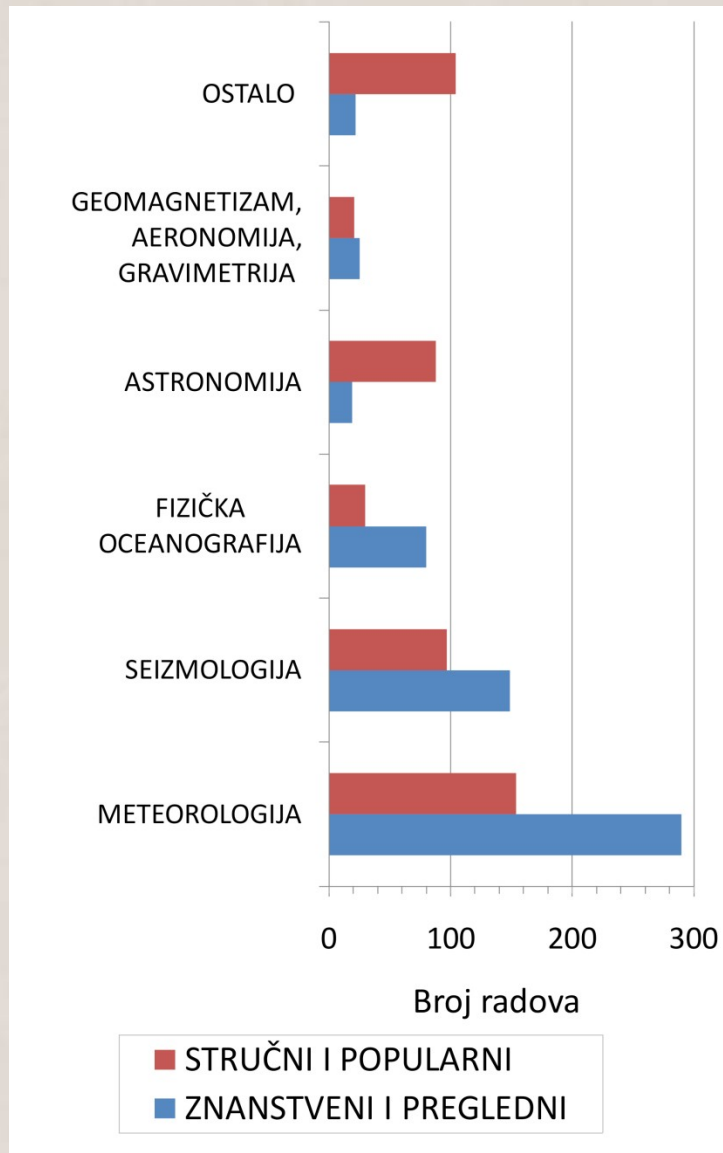


HRVATSKI GEOFIZIČAR
KOJI JE 1910. OTKRIO
GRANICU PODRUČJE
ZEMELJE I KOREKTOVANJE
PLAŠTA. STUĐOVAO JE
OVDE U KLEMENTINU
NA KARLOVOM
UNIVERZITETU U PRAZI
OD 1875. DO 1878.

ANDRIJA MOHOROVIČIĆ (1857-1936)

V PRÁZĚ ŽIL V LETECH 1875 AŽ 1878. V KLEMENTINĚ NA UNIVERZITĚ KARLOVĚ. V PRAZE ŽIL V LETECH 1875 AŽ 1878. V KLEMENTINĚ NA UNIVERZITĚ KARLOVĚ.

Šira publicistička djelatnost

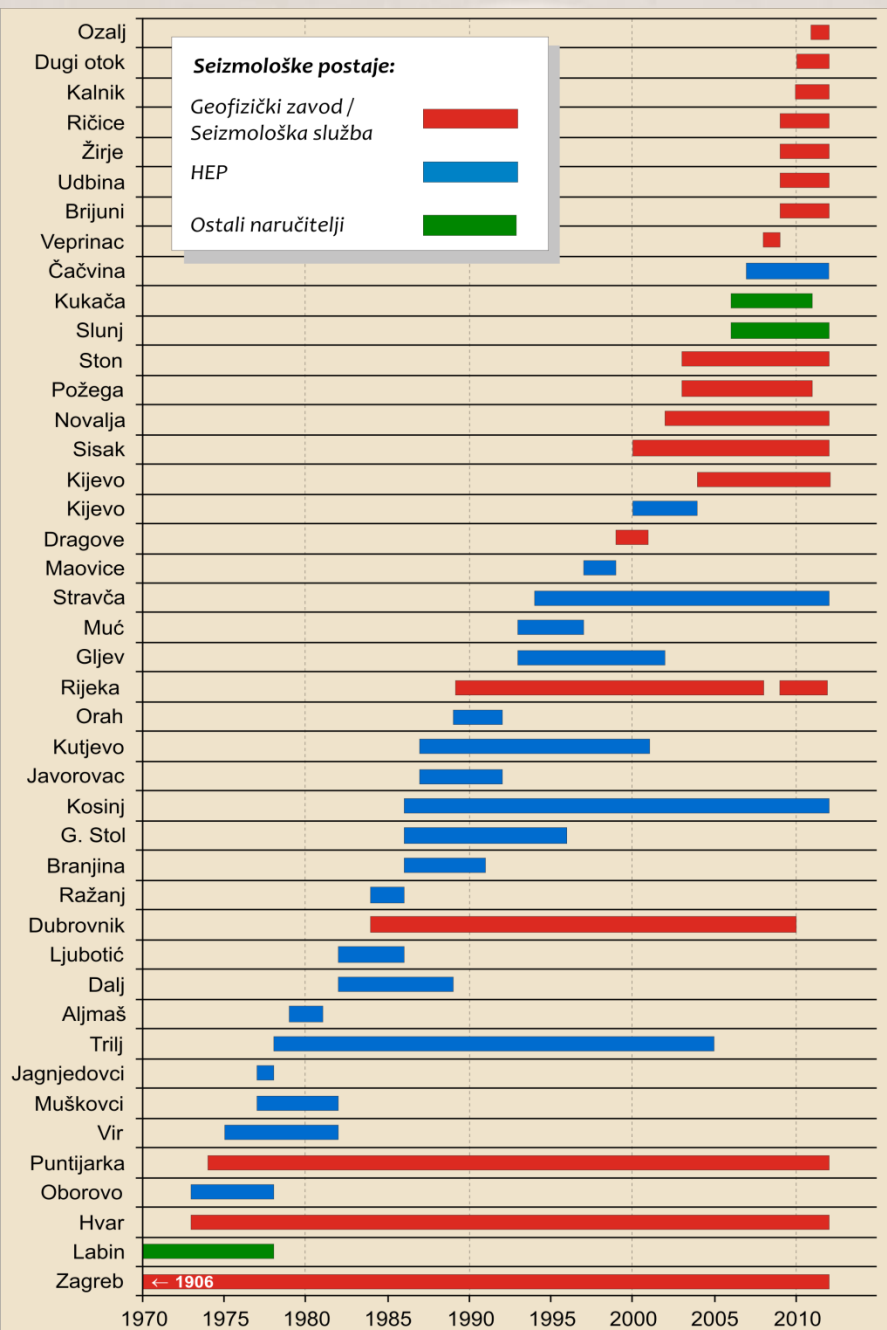


Priroda (136 radova), Geofizika (35 radova), Matematičko-fizički list (32 rada)...

Suradnja s gospodarstvom



Jastrebarsko, 1899.



Dugotrajnost i kontinuitet u turbulentnim prilikama

