# Instructions for authors for filling in OBD records

# 1 Log in to the OBD app

#### OBD = personal bibliographic database

URL: <u>https://is.cuni.cz/veda/</u>

Portál IS Věda >		
Support and Documentation		
:≡ Documentation	Welcome to IS Věda	Enter IS Veda modules
HelpDesk	IS Věda Information System for Creative activities,	
Ask for help	Projects and Mobilities	OBD (Outputs)
List of issues	Do you need help? Learn about the support policy.(yet only in czech)	
✿ Settings ✓	A description of the individual modules of the system can be found below. Access to some modules is open only to selected users depending on their work duties. The operation of the system is governed by the Rector's Directive n. 40/2021 (published only in czech though)	My Identifiers
	Internal classification of academic fields All registration, evaluation and internal competitions associated with creative activities use the University's internal classification of academic fields, which is also available in the Evaluation module.	PAS (Projects and Tenders)
	Outputs of Creative Activities The OBD module records all types of outputs determined by the national methodology for	Tendersy

# 2 Navigate to the OBD module

Path: IS Věda > Dashboard > OBD

IS VĚDA EVIDENCE A HODNOCENÍ TVŮRČÍ ČINNOSTI Univerzita Karlova					- *	<b>1</b> 2			š Marcel Logou I Cogou
Portal IS Věda   OBD   IDENTIFIERS   ORGANIZATION   Reports   HELP	DESK	ADMINS & READERS   M	y settings						
						С	hange d	lashboai	rd layout
OBD: Quick search of records by ID		OBD: Overview by state	es for workpl	ace grou	ups	TI	he data	are up t	o date.
Publication ID: (?) Sea	arch	Workplace group:	not selecte	d			¢		
	Workplace:	116 - Faculty	of Mathe	matics a	nd 🔳 🕽	κ			
OBD: Records from API		Overview by:	Records ente	ered in th	e year	~		S	earch
		Records	Total	2023	2022	2021	2020	2019	2018
DOI:		Importovaný	13131	0	0	0	0	0	0
EID: Search		Rozpracovaný	256	1	175	31	17	15	8
UT WOS:		K autorizaci	0	0	0	0	0	0	0
		Vrácený	0	0	0	0	0	0	0
OBD: My folders		Uložený	390	2	343	43	1	1	0
Folder name	ared	Ke kontrole Kontrolovaný	232	0	157	29 0	32	9	0
Folder name $ ho$ My Sha	area	PŘIJATÝ	27960	0	1173	1763	1608	1869	2008
▲ 🛄 My folders		Vymazaný	51	0	25	8	7	2	2000
		Nedokončený	0	0	0	0	0	0	0
⊳ 📕 Aktuální sběr (1918)		Schválený pracovištěm	17	0	13	4	0	0	0
FSV (14169)		Schválený sekcí	0	0	0	0	0	0	0
MFF (41367)		Schválený fakultou	1	0	1	0	0	0	0
		PŘIJATÝ (nepublikovat)		0	0	0	0	0	0
Pracovní (41555)		Total	42042	3	1887	1878	1665	1896	2022

### 3 Create a new record

In the top (red) menu, click on the "**New record**" link:

IS VĚDA EVIDENCE A HODNOCI TVŮKČÍ ČINNOSTI Univerzita Karlova	ENÍ 20971346 (Goliaš Marcel )
List   New record   Nomination   The most significant outputs   Co	ontainer of pre-imported   RIV exports   Tools   Import   Settings
Filters         Folders         Exports         Bulk changes         Record preview	List of found records Criteria used: Internal author. Goliaš Marcel, DiS. (Author)
Basic filter Extended filter Expert filter	
Search Default filter Clear filter + -	Mark all Invert selection Cancel selection Sort by: Record ID   Ascending O Descending O Sort
Use the % (percentage) wildcard to filter any value.	Page 1 out of 1   1         Total number of records: 1         5         10         20         50
Help for filter usage can be found here. Ignore diacritic:  Show also records in "Deleted" status:	TIT       Kwisatz Haderach       Ø         AUT       Goliaš Marcel       Ø         SRC       AAA: Arbeiten aus Anglistik und Amerikanistik, 1(1), 1-10
+ - Filter:	PedF   in charge: MFF: KJP   owner: Marcel Goliaš (MFF)
Editable records:     - not selected -       Marked records:     All records	funding: [>I< Q47] TYP JOURNAL ARTICLE (original article)
Read records: Doesn't matter	Page 1 out of 1   1 Total number of records: 1 5 10 20 50
ID: Folder: not selected	Mark all Invert selection Cancel selection
Type of output: - not selected -	

# 4 Fill in the input data

- Title/name
- Original language
- Type of output (+ Result subtype)

The most common examples of output types:

- Journal article (J)
- Paper in conference proceedings (D)

- $\circ$  Chapter (C)
- $\circ$  Book (B)
- Software (R)
- Other output (O) this type of output goes into RIV in a very "truncated" form

 Fill in all highlighted fields. Fields Title, DOI, UT WOS and EID are used to find records in the section "Already existing imported records in the container" and "Already existing records with similar title or same identifier".

 According to the DOI, UT WOS and EID fields, records are also searched in the section "Records searched in scientific repositories".

 Title/name in original language:
 Imported records in the verification is the verification, patent grant, exhibition, etc. It isn't the verification of 2022 records!

 Year of issue /implementation:
 Imported records!

 DOI:
 Imported records!

 UT WOS:
 Imported records!

EID:							
Type of output:	$\Delta$						
Already existing imported records	in the container						
Already existing records with similar title or same identifier							
Records searched in scientific rep	ositories						

<u>Note</u>: After filling in a title or an identifier (DOI, UT WOS, EID), the OBD automatically searches its records and shows the list of results with similar or the same title (or the same DOI, UT WOS, or EID) at the bottom so that you can check if the same record is not already in the OBD and avoid creating a duplicate record.

#### Then click the "Create new record" button:

Fill in all highlighted fields. Fields	Title, DOI, UT WOS and EID are used to find records in the section "Already existing imported records in the container" and "Already existing							
records with similar title or same identifier".								
According to the DOI, UT WOS and	d EID fields, records are also searched in the section "Records searched in scientific repositories".							
Title/name in original languange:	Fersical segtrois							
Original language:	English 👻							
Year of issue /implementation:	The year of issue/implementation is the year of the publication, patent grant, exhibition, etc. It isn't the year of the collection of 2022 records! Enter in YYYY format.							
DOI:								
UT WOS:								
EID:								
Type of output:	JOURNAL ARTICLE							
Result subtype:	original article [J] 🗸							
Already existing records with sim								
	Show records found Create new record Cancel							

### 5 Fill in the remaining data

<u>Note</u>: The OBD form for creating new (or editing already created) records is rather user unfriendly (chaotic). For easier orientation, you will find a list of individual blocks of the form in the upper right part of the window:

List   New record   Nomination   The most signific	ant outputs   Container of pre-imported   RIV expo	orts   Tools   Import   Settings	
+- Options Save record	Cancel	? Navigace: 0 z 1 ≥	>> Record status:
	My new article		
		-	Content of the record
+ - Metadata Record ID: Record owner:	Record in your folders: Added:	0 folders of user 20971346	Basic information RIV Authors Titles
Basic information		*	Funding method Record's clasification
Workplace in charge  RV Type of output: Type of article: Article getting prepared for publication R09 Year	JOURNAL ARTICLE original article [J]	▲ ▼ ▼ A Y	WoS and Scopus Specific information Links Bibliometric indicators of journal Not displayed values Files
RIV			1100

### 5.1 Basic information

- **Workplace in charge**: Select your department (e.g. "MFF - Astronomical Institute of Charles University")

#### 5.2 RIV

- Intended for the RIV:
  - Check this box if you want to send your result to the government's database <u>RIV</u> (= register of information on research, innovation and development results)
  - $\circ$   $\,$  Do not check this box if you do not want to send your result to RIV

### 5.3 Authors

#### Important notes and tips on filling in authors:

1 Always fill in the authors in the order in which they appear in the original record (article, book, etc.)

**2** In case the result has a large number of authors, it is not necessary (or even advisable) to fill in all of them  $\rightarrow$  it is mandatory to fill in all *university* authors (i.e. authors from the Charles University); only the main ones from *foreign* authors need to be listed. This rule has the following exception:

**3** For *applied research* results (typically e.g. software), *all* authors must be listed.

**4** When filling in authors whose exact wording you are unsure of, tick the box "Ignore diacritic" in the window.

5 The surest way to find the right author is to search by "Personal ID".

**6** If the search results show the appropriate author but no corresponding department, try deleting "Publication year" and clicking "Find" again.

7 A number of authors will load into your form with several workplaces at once. In this case, *remove all unwanted workplaces* (using the "Remove workplace" cross) and leave only the workplace where the author produced the result (or which funded the research).

Author: To fill in university authors, *click on the list icon* next to the "Surname" / "First name" fields:

AUTHO	R								AUTHOR	≙
Order RIV	Role in collective	Surname A02	First name A03	Degree (before) My	Degree (behind) M	Personal ID/code		Foreign RIV	Participation	
÷	+	Δ								
1	Ext. workplace not selected -									
Add another author     Delete selected       Add author collective										
🔊 et al					Tick this, if the	list of authors is a	supposed to end v	vith an: et alia cla	use. Once ticked, the	e form o
R10 Tota	I number of article auth	ors	Σ	⚠	Enter the total number of authors of the output (excluding editors and supervisors). The field is					
🔊 Sum	imary of mental shares	of external authors			If the mental	share field is man	datory at your facu	ulty, it must be fille	ed in with a non-zero	value f
🕅 SKL	JPINOVÝ AUTOR								SKUPINOV	Ý AUTOR
Add gr	oup author									
Add mu	Itiple authors at once:	Add:to the end	✓ Number of occure	nces: 1	Туре:	~				

- List of CU persons (see image below):
  - 1) Fill in the author's *surname* and *first name*, or (if you know it) fill in his/her *personal ID*
  - 2) Click the "**Find**" button

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3) At the bottom [of the list of authors who match the search criteria], *click on the author you are looking for* – this will load him into the record

🍅 List of persons - author cl	oice — Mozilla Fire	fox		– o x
O 🔒 🕶 https://vers	o.is. <b>cuni.cz</b> /fcgi/v	erso.fpl/_	TS_/1672642401?p_ob=&fname=obd_cis_autor_vyber	r&filtr_pamatuj=par 🗉 🏠 🔳
List of CU persons				
Quick filter: Workplace: Workplace group: Surname: First name: Ignore diacritic:	All not selected Hajič Jan	1		dinates: 🗖
Find Cancel filter    Selection is made b  If the author's workp	ip: If checked, a Cancel all select clicking anywhere ace is not listed, the	ions on the ro	ORCID, Scopus ID, Researcher ID - separate ors who are in relationship in the current and the previous year and relationships will be displayed. Otherwise only current relationship Close W. as no relationship in active status. he author has more than one active relationships.	re displayed.
surname 🛛 first nam	e 🛛 personal ID 🗖	titles	workplace	Personal Identifiers
Hajič 🖪 Jan	98352017	prof. RNDr. Dr.	1297 - MFF: Institute of Formal and Applied Linguistics , 1297 - MFF: Institute of Formal and Applied Linguistics , 1297 - MFF: Institute of Formal and Applied Linguistics (DPP) , 1297 - MFF: Institute of Formal and Applied Linguistics (DPP)	ORCID: 0000-0002-3503-7730 Scopus ID: 6602292051 Researcher ID: D-3429-2017
Page 1 From 1   1		Total re	cords: 1	5 10 15 20 25 50 100 All HelpDesk

- Author #2: To add another author:
  - 1) Click the "Add another author" button to add another author line to the form
  - 2) Follow the same procedure as in the previous case (i.e. *click on the list icon*, find the university author and click on him/her to insert him/her into the record)

AUTHOR	R									AUTHO	R	Æ
Order RIV	Role in collective	Surname <sup>A02</sup>	First name A03	Degree (before) My	Degree (behind)	Jr. ⊯∕y	Personal ID/code		Foreign RIV	Participation		
÷	+	Hajič	Jan 🔳	prof. RNDr.	Dr.		98352017	0000-0002-350			E	
1		RIV Unit	Institute of Formal and	Applied Ling	uistics		X	1				
÷	+	A									x	
Ext. workplace - not selected -												
	other author thor collective								l	Delete selected		
💋 et al.			- 3		Tick this,	if the l	ist of authors is	s supposed to end w	ith an: et alia clau	use. Once ticked,	the form o	
۲٥ Tota	I number of article auth	ors	Σ	Δ	Enter the	total r	number of auth	ors of the output (ex	cluding editors a	nd supervisors).	The field is	
N Sum	mary of mental shares	of external authors			If the me	ntal sh	are field is ma	ndatory at your facu	lty, it must be fille	d in with a non-z	ero value f	

3) 3) Fill in the *total number of authors* of the article

5.4 Titles (i.e. title and annotation of the result)

- 1) Annotation: Fill in the annotation
- 2) Keywords: Click on the "Generate keywords" button (or fill them in yourself)

RIV	Titles	4
Orig.	Original language Article title (English)	English (eng) My new article My new article
	Annotation (English)	If there is a subtitle, separate it from the title with a sequence of space, colon, space characters. [e.g.: Title : Subtitle] With 24 official EU and many additional languages, multilingualism in Europe and an inclusive Digital Single Market can only be enabled through Language Technologies (LTS). European LT business is dominated by hundreds of SMEs and a few large players. Many are world-class, with technologies that outperform the global players. However, European LT business is also fragmented, by nation states, languages, verticals and sectors, significantly holding back its impact. The European Language Grid (ELG) project addresses this fragmentation by establishing the ELG// Provide an annotation in the 64-10000 characters range. The annotation must not be shorter than the title, nor identical to the title.
2	Kerwords (English) Generate keywords	multilingualism; inclusive market; technologies
Add	l another language	

### 5.5 Funding method

#### Important notes and tips on filling in the funding:

1 Basic overview of funding types:

Funding of a result that has been supported by the state budget:

- P = project registered in the government's CEP database (= central project register)
- I = institutional support
- S = specific university research
- J = large research infrastructure

Funding of a result not supported by the state budget:

- O = operational programme
- R = European Commision framework programme
- V = other public sources
- N = non-public sources

**2** In case the result (which you are entering in the OBD) is based on research that HAS been supported by the state budget, *only* the P-I-S funding (or a combination of these) can be used; in this case, *none* of the codes O-R-V-N can be used. Simply put, if you list P, I or S funding for a given result, then you must not list any O, R, V or N funding. If you combine, for example, a P project with an O project, then the O project will be automatically removed from the batch when the results are submitted to RIV.

**3** If the result (which you are entering in the OBD) is based on research for which NO government support has been provided, O-R-V-N funding can be used, but only a single *one*. Simply put, if you list e.g. O funding for a given result, then you must not list any more O funding, or R, V or N funding (you can only list one O funding, or one R funding, etc.).

4 Please note: Due to duplications in the Grants and Projects (GaP) module, which is managed by the Department of Grants and Projects (OGAP), and from which grants and projects are then transferred to OBD, some projects may be recorded twice in OBD – each time under a different type of funding. For example, the project "Fyzika martensitické transformace pro rozšíření funkcionality krystalických materiálů a nanostruktur" (whose provider is the Ministry of Education) can be found in the list of funding both under the code CZ.02.1.01/0.0/0.0/15 003/0000487 (Funding type: O) and under the code EF15 003/0000487 (Funding type: P). If any funding of type O or R is registered in the CEP database (as type P), then its CEP P-variant must be used. Simply put, if you are going to fill in an O or R type of funding into your record, always check first that it is not also registered in the funding list as type P. This can be checked by trying to search for it by its "Name" (not "Number/code"). As you can see in the figure below (under the "Funding list" bullet), if you search for funding by name ("Fyzika martensitické transformace..."), it will sometimes find two of the same project – one of type O, the other of type P. In this case, you must select the P type of project. The advantage of this procedure is that you can combine P funding with other P, I or S funding. However, many O or R projects are not registered in the CEP database, so they do not have any P-variant and can therefore only be entered into the OBD as O or R funding (e.g. CZ.2.16/3.1.00/21566, DYNASNET, Cat-In-hAT, CoCoSym, TSuNAMI, Bergamot, and others). On the other hand, the FITOPTIVIS (R), AFarCloud (R) and other projects have their P-variants  $\rightarrow$  8A18009 (P), 8A18006 (P), etc. So whoever looks for it, sometimes finds it...

**5** *If* you wish to add *a funding* to your record that *is not in the funding list*, then please contact the Department of Grants and Project (OGAP) with a request to add it on the list: <u>granty@matfyz.cuni.cz</u>

- Funding: Click on the "Add funding" button to open the funding list



- **Funding list**: Search for the relevant funding in the list:
  - 1) either by "**Name**"
  - 2) or by "**Number/code**"
  - 3) Then *click on the desired funding* below to insert it into the record

🛇 ြိဳ 🚭 https://verso.is.cuni.cz/fcgi/verso.fpl/_TS_/1672643753?_p_ob=&fname=obd_cis_grant_vyber&filtr_pamatuj=pamatuj&elidek=&stranka=obd_edit_add_financ&_exist_ 🏠 🚍
Funding list
Funding from the project code list
Filter: 🧿 All 🗸 🤉 Workplace: 🧃 🔲 🗮 Incl. subordinates:
Number/code: Name: Fyzika martensitické tr Year. 2022
Funding type for RIV: Provider:
Researcher
Surname: First name: Main researcher.
Find Cancel filter Close
🛞 Funding type for RIV 🚺 🕆 Number/cole Other numbers 💮 Name 💮 Prov. 🔅 Field 🔅 Start Main researcher Admin. workplace Other units
CZ.02.1.01/0.0 Fyzika martensitické Faculty of Transformace pro rozšíření Nyklová Helena Faculty of
0 10.0/15_003 functionality krystalických MSM 01.12.2016 BNDr Mathematics and CO2P
10000487 materiálů a nanostruktur Physics
Fyzika martensitické Faculty of
P 3 EF15_003/0000487 116206; EF15_003/0000487 transformace pro rozšíření funkcionality krystalických MSM BM 01.09.2016 Mathematics and
Physics
Page 1 From 1   1 Total records: 2 5 10 15 20 25 50 100 All
HelpDesk

- If you want to add *additional funding*, click the "**Add funding**" button again (and follow the same steps as before):

	Funding method								•		
	the record is supposed to go to RIV for CUNI (faculty hospital), it must be financed from CUNI's (FH's) funds. To add financing, use the Add Financing button and select the correct project or other funding. Requested funding:										
	No1 Funding type	Provider	Funding description	NO3 (P) Grant No.	Name of funding	Molder	📈 Units	My Link			
٩	P - project registered in the CEP	MSM	Fyzika martensitické transformace pro rozšíření funkcionality krystalických materiálů a ///		Fyzika martensitické transformace pro rozšíření ///	UK	MFF	link	x		
	ld funding										

### 5.6 Category (aka *subject field*) $\rightarrow$ Record's classification

#### Important notes on filling in the subject fields:

1 A minimum of one (and a maximum of three) primary fields must be listed for each record.

**2** If a field has sub-fields, a minimum of one (and a maximum of three) sub-fields must be selected in addition to the primary field.

- **Category** [aka subject field]:
  - Click the "Edit fields" button:

Category		•		
The new RIV field will be filled in automatically according to the selected CUNI primary field.				
x Category				
Own work type will be automatically generated after saving the record.				
R04* Internal classification of CUNI academic fields	Classification			
Edit fields				

• You must first *save the record* as "work in progress" (or "inspected") before you can access the "Internal classification UK" window to select a subject fields:



- List of fields: The "Internal classification UK" dialog opens
  - Click on the list icon

🖕 Internal classification — Mozilla Firefox			-		×
◯ 👌 🔤 https://verso.is. <b>cuni.cz</b> /fcgi/vers	o.fpl/_TS_/1672644656?fname=obd_publikace_obor_det&id=6197	30&odkud=obd_publikace	_det&granty=215572&v	vi 🏠	≡
Internal classification UK					
Publication title:	My new article				
Publication must have a selected primary field					<u> </u>
Primary Field	Subfield	Science area	Field according to RIV		
not selected A				)	x
Add field					
Save Close					
	$\backslash$				
				HelpDes	k

- In the "**List of fields**" dialog box:
  - 1) Fill in the *field name* (or keyword)
  - 2) Click on the "**Find**" button
  - 3) In the list of found fields, *click on the corresponding field* for it to be inserted into the record

🎃 Číselník List of fields — Mozilla Firefox —		×
O A ब https://verso.is.cuni.cz/fcgi/verso.fpl/_TS_/1672644881?fname=dynciselnik_upgr&lov=lov%3Avav	_nk <b>☆</b>	≡
List of fields		
Field: Find Disable filter Close		
Selection is done by clicking anywhere in the table row. Special characters 🥹.		
field		
Astronomy and Astrophysics		
Atmospheric Physics, Meteorology and Climatology		
Medical Biophysics		
Particle and Nuclear Physics		
Physics of Condensed Matter		
Physics of Molecular and Piological Structures		
Physics of Plasma m 3		
Physics of the Earth and Planets		
Surface Physics		
Theoretical Physics		
1 - 10 From 10		

Back in the "**Internal classification UK**" dialog box, click the "**Save**" button (or *add another field*):

🥌 Internal classification — Mozilla Firefox			– o ×
○ A ब https://verso.is. <b>cuni.cz</b> /fcgi/verso	.fpl/_TS_/1672644656?fname=obd_publikace_obd	or_det&id=619730&odkud=obd_publika	ice_det&granty=215572&vvi ☆ 🗧
Internal classification UK			
Publication title:	My new article		
Primary Field	Subfield	Science area	Field according to RIV
Physics of Plasma		Physics	Fluids and plasma physics X
Add field			
Save Close			
			HelpDesk

This is what the form looks like with the subject field filled in:

My Cate	🗹 Category 🔺					
The new R	NV field will be filled in automatically a	cording to the selected CUNI primary field.				
K Categ	огу					
A02. Scien	tific articles in foreign journals without	IF				
R04* Inter	nal classfication of CUNI academic fi	elds		Classification		
Primary	Field	Subfield	Science area	Field according to RIV		
M	Physics of Plasma		Physics	Fluids and plasma physics		
Edit fields						
Add comm	Add comment					

#### 5.7 Source (i.e. journal, proceedings or book)

#### Important notes and tips on filling in sources:

**1** It is always best to search for journals by "ISSN" code. In case you cannot find the journal by ISSN, try searching for it by "Name".

**2** In case you cannot find the journal in the source list, please let me know immediately (preferably via HelpDesk) so that I can arrange for it to be added.

- **Journal**: Click on the list icon to the right of the "**ISSN**" field and *search for the relevant journal in the list* 

Journal	*
R16 Journal title	
	The unabbreviated title of the journal in the original language. For inserting the title of the provided REFERABLY perform t
R14 ISSN	
	Enter the ISSN of the article - resp. of the journal variety, in which the article was published. In case it was published both in pr In order to enter the ISSN, PREFERABLY perform the selection from the list of values, even when editing an already exis
R15 Second ISSN (eISSN)	
	If the journal is electronic only, its eISSN should be entered both in this and the ISSN field. If the article was published only in
My Journal type	not selected 🔬 🔳
R17 Country of the publisher	- not selected 🕜 🗨
	Select from the list of values.
R18 Journal volume	Δ.
	Indicate the year/volume of the journal with a number. [e.g. 46] If there is no year numbering or only the year of publication is
R19 Journal issue no.	Δ.
	Indicate the journal number [e.g. 11]. If the periodical does not have a continuous numbering, fill in the name of the month or
R20x Article No.	۵
	Fill in the article number, if any, without the opening "Art. No." etc.
R20 Page range from-to	۵
	For unpaginated, indicate "nestránkováno", otherwise page range e.g. 67-88, A5-A55, 4-4 (for single-page). In case of non-sta
R21 Number of pages of the article	
	Indicate numerically the number of pages in the article [e.g. 15]. For unpaginated articles indicate the number of standard pa
Quartiles	

#### - Source list:

- 1) Fill in the ISSN code
- 2) Click on the "**Find**" button
- 3) At the bottom of the list of found journals, click on the corresponding journal to transfer its data to the record

🌢 Source list — Mozi	lla Firefox											—		>
🔿 🗛 🗝 https:	//verso.is. <b>cuni.cz</b> /f	cgi/verso.fpl/_TS_/1	672645518	?p_ob=&fname	=obd_cis	_zdroj_vyber	&filtr_pa	matuj=&elidek:		p_f=08	&rok=	2022&f_filtruj=	8 ☆	Ξ
Add source	Source list													
Name: Ná	zev zdroje 🔏						Abbrevi	ation: Zkrat	ka zd	roje				
ISSN/e-ISSN: 10	70-6631	SBN/e-ISBN: ISBN		]			Place o	fissue: Místo	vydá	iní				
Source format: – no	t selected 🗸 S	Source type: not	selected				🕻 No reso	urce type:						
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# Temperature and precipitation fluctuations in the Czech Republic during the period of instrumental measurements

**By:** Brazdil, R (Brazdil, Rudolf) <sup>[1]</sup>, <sup>[2]</sup>; Zahradnicek, P (Zahradnicek, Pavel) <sup>[2]</sup>, <sup>[3]</sup>; Pisoft, P (Pisoft, Petr) <sup>[4]</sup>; Stepanek, P (Stepanek, Petr) <sup>[2]</sup>, <sup>[3]</sup>; Belinova, M (Belinova, Monika) <sup>[1]</sup>; Dobrovolny, P (Dobrovolny, Petr) <sup>[1]</sup>, <sup>[2]</sup>

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#### Abstract

The history of early meteorological observations using instruments in the Czech Lands is described (the longest temperature series for Prague-Klementinum starts in 1775, precipitation series for Brno in 1803). Using the PRODIGE method, long-term monthly temperature and precipitation series from selected secular stations were homogenised (for 10 and 12 stations, respectively). All the seasonal and annual temperature series for the common period 1882-2010 show a significant positive linear trend with accelerated warming from the 1970s onwards. No significant linear trends were disclosed in the series of seasonal and annual precipitation totals. Correlation coefficients between the Czech series analysed decrease as distances between measuring stations increase. A sharper decrease of correlations for precipitation totals displays much weaker spatial relationships than those for mean temperatures. The highest correlations between all stations appeared in 1921-1950, the lowest in 1891-1920 (temperature) and 1981-2010 (precipitation). Wavelet analysis reveals that very distinct annual cycles as well as the slightly weaker semi-annual ones are better expressed for temperature series than for precipitation. Statistically significant cycles longer than 1 year are temporally unstable and sporadic for precipitation, while in the temperature series cycles of 7.4-7.7 and 17.9-18.4 years were recorded as significant by all stations in 1882-2010 (quasi-biennial cycle of 2.1-2.2 years for half the stations). Czech homogenous temperature series correlate best with those of the Northern Hemisphere for annual, spring and summer values (with significant correlation coefficients between 0.60 and 0.70), but this relation is temporally unstable. Circulation indices, such as the North Atlantic Oscillation Index (NAOI) and the Central European Zonal Index (CEZI), may explain the greater part of Czech temperature variability, especially from December to March and for the winter; however, this relationship is much weaker, or even random, for precipitation series. Further, relationships with the Southern Oscillation Index (SOI) are weak and random. Relatively weak coincidences exist between statistically significant cycles in the Czech series and those detected in NAOI, CEZI and SOI series.

#### Keywords

Keywords Plus: NORTH-ATLANTIC OSCILLATION; LONG-TERM CHANGES; AIR-TEMPERATURE; CLIMATE DATA; SERIES; TRENDS; HOMOGENIZATION; SWITZERLAND; EUROPE; VARIABILITY

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