



A COMMUNITY INFORMATION SYSTEM FOR PALEONTOLOGY AND SEDIMENTARY GEOLOGY

LOGIN

HOME PUBLIC ACCESS PERSONAL AND PROJECT WORKSPACE TOOLS DATABASE PORTALS

Welcome PaleoStrat & Geoinformatics Tutorial - Using The System People & Contact Us Documents Events What Is Next?

PaleoStrat is a developing community digital information system for **terrestrial-based** sedimentary geology and paleontology that is designed to provide a rigorous platform from which Earth scientists can continue to conduct cutting-edge research.

WELCOM

Welcome
comprehens
open access
related data

WE NEED

We ask you for three things as you explore the site:

1. Please be patient as we fix the inevitable glitches that will occur for the next few weeks - rest assured that they will be corrected as quickly as we find them.

s to provide a
PaleoStrat is an
chronologic, and

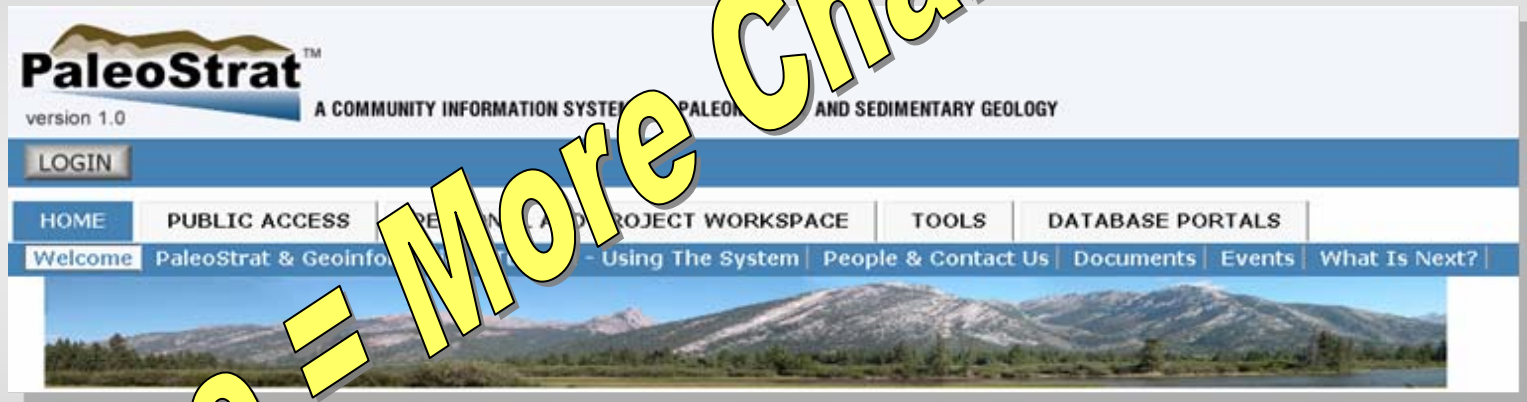


From there to now:



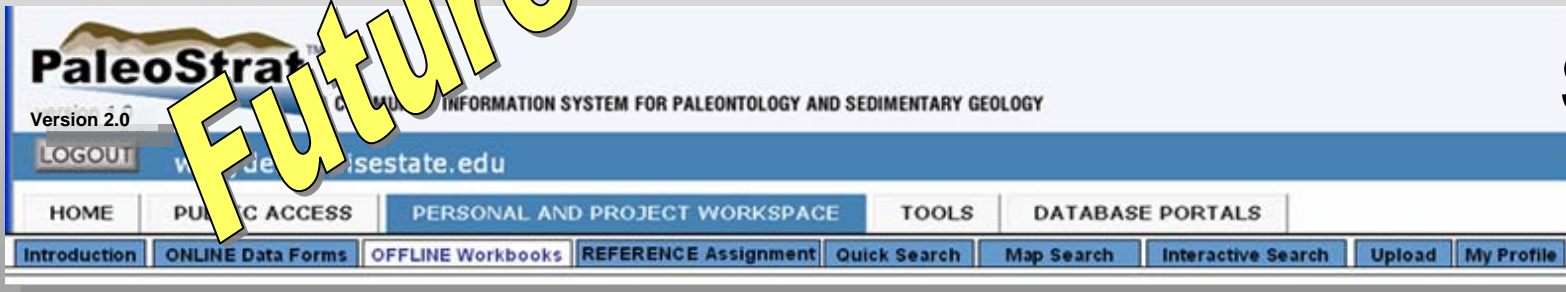
1995

NOW



Future = More Changes!

SOON





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WELCOME TO PALEOSTRAT

Welcome to the new site. PaleoStrat is a database system for paleontology and sedimentary geology that strives to provide a comprehensive geoinformatics working environment for the geoscientist. Harnessing the power of information technology, PaleoStrat is an open access system that hosts an integrated suite of sedimentary, paleontologic, paleobiologic, stratigraphic, geochemical, geochronologic, and related data and that provides user support for the input, searching, output and synthesis of these data.

WE NEED YOUR FEEDBACK

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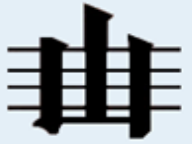
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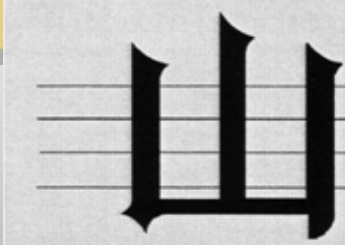
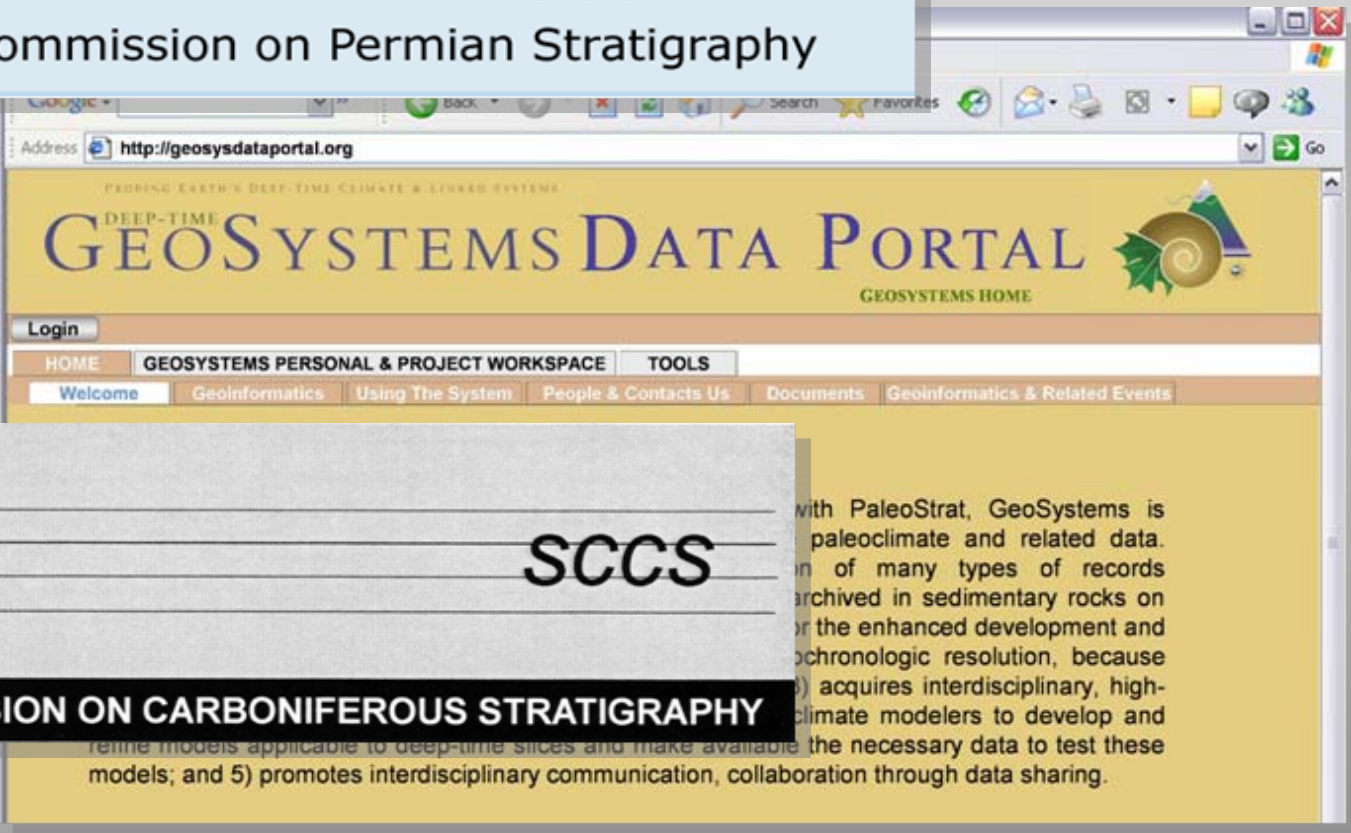




**DATA PORTALS –
CUSTOMIZED FOR
SPECIFIC USER
GROUPS**



**International Commission on Stratigraphy
Subcommission on Permian Stratigraphy**



SCCS

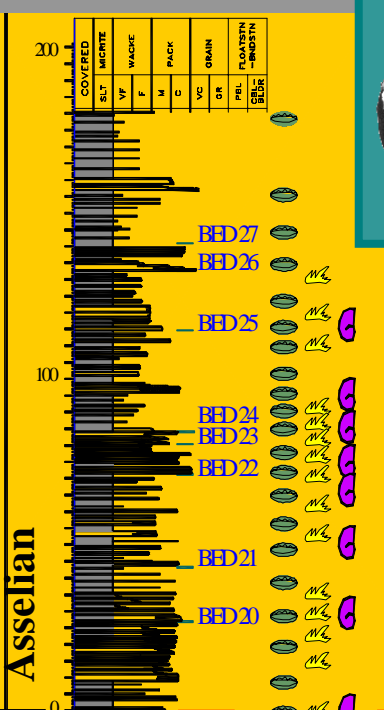
I.U.G.S. SUBCOMMISSION ON CARBONIFEROUS STRATIGRAPHY

**Global Stratotype & Section Point for Pennsylvanian-Permian boundary
: Aidaralash creek section, Southern Ural Mountains , Kazakhstan**



Accepted in 1996

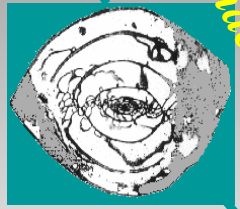
PERMIAN
Asseian



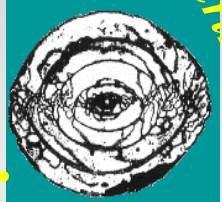
Sphaeroschwagerina



St. cristellaris



F.B.



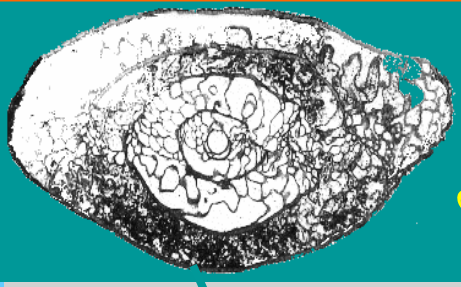
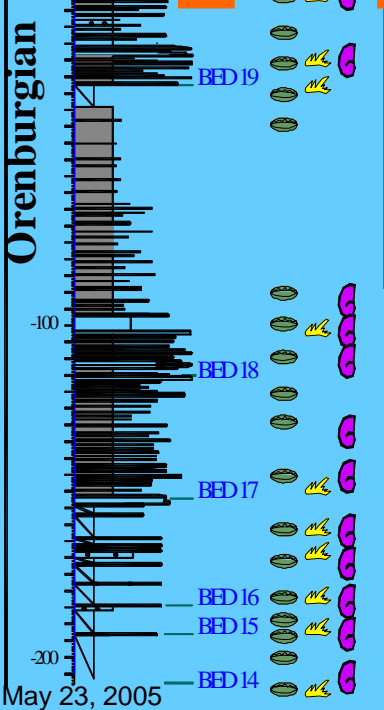
St. isolatus



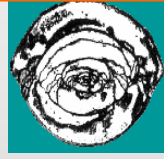
A.B.

A. kazakhstanica

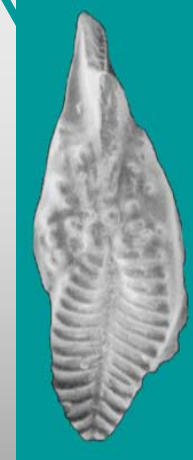
CARBONIFEROUS
Orenburgian



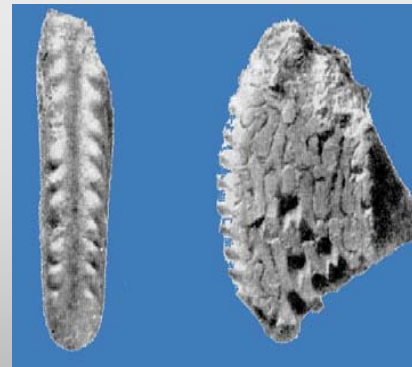
Ultraiaxiniocline



St. isolatus



St. wabaunsensis



Artinskia irinae

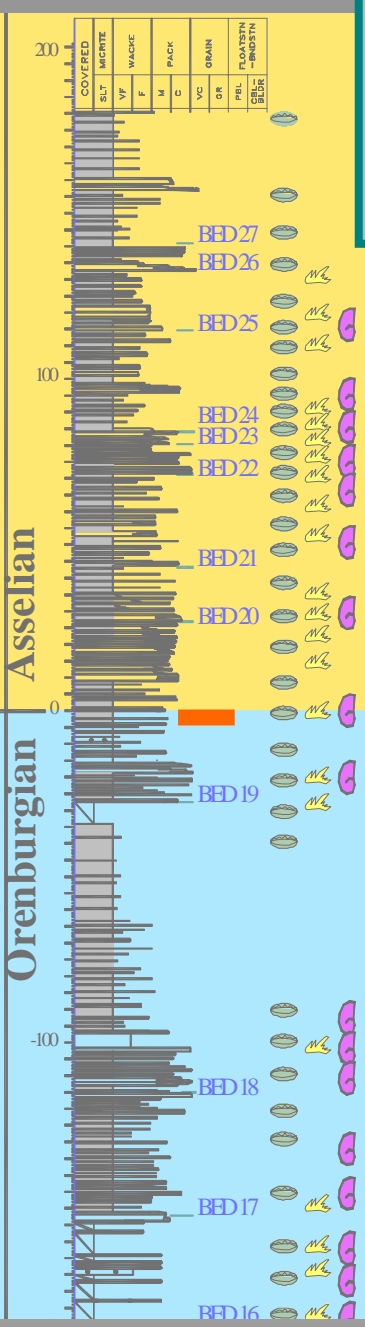
GSSP

A.B. - ammonoid boundary
F.B. - fusulinid boundary



PALEOSTRAT CAPTURES INTEGRATED DATA SETS:

CARBONIFEROUS PERMIAN



1. Lithologic
2. Lithostratigraphic
3. Lithofacies
4. Biofacies
5. Sequence Stratigraphic
6. Cyclostratigraphic
7. Magnetostratigraphic
8. Chemostratigraphic
9. Paleoclimatologic
10. Geochronologic

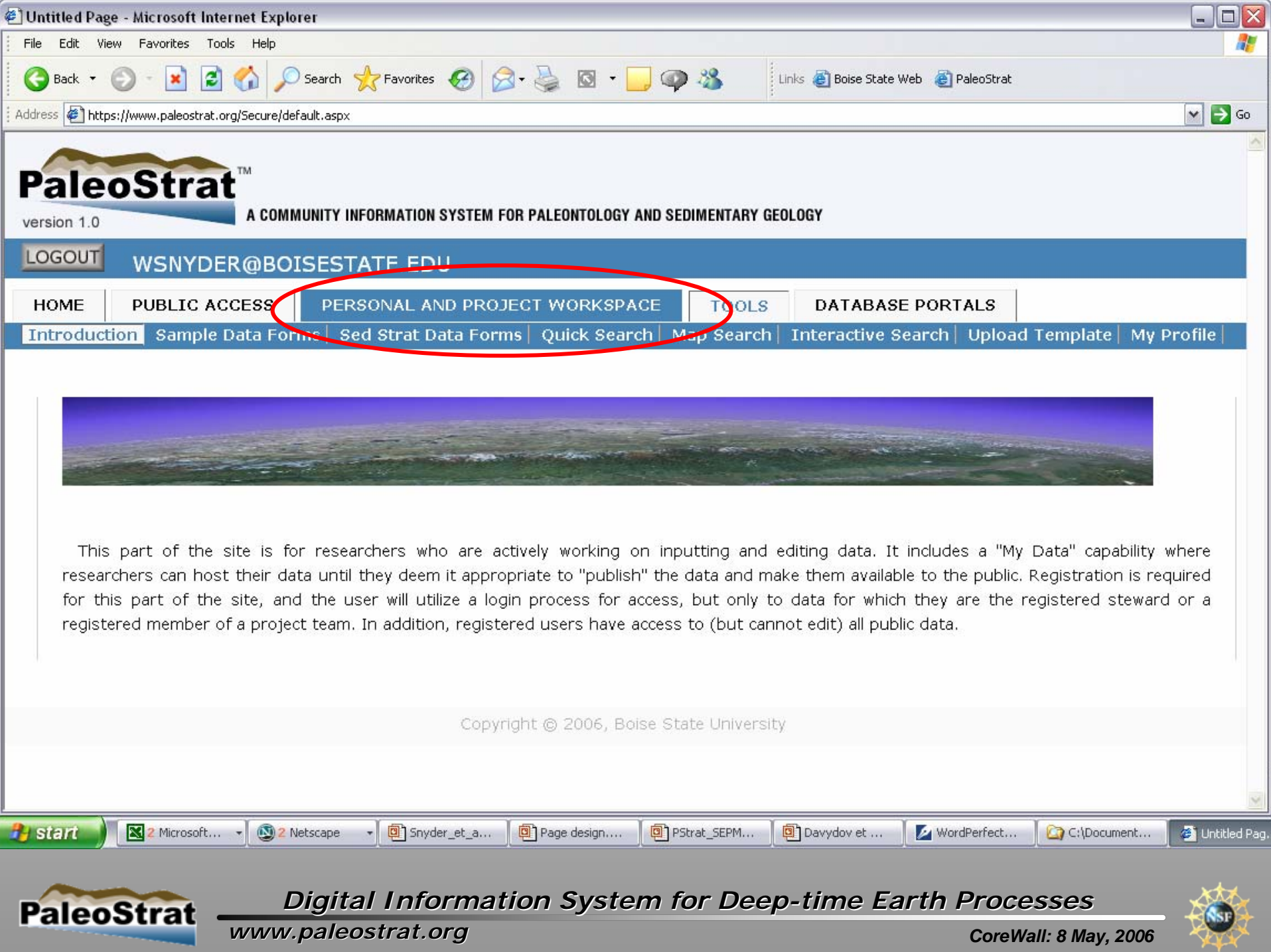


A. kazakhstanica



Artinskia irinae





version 1.0

A COMMUNITY INFORMATION SYSTEM FOR PALEONTOLOGY AND SEDIMENTARY GEOLOGY

LOGOUT

WSNYDER@BOISESTATE.EDU

HOME

PUBLIC ACCESS

PERSONAL AND PROJECT WORKSPACE

TOOLS

DATABASE PORTALS

Introduction

Sample Data Forms

Sed Strat Data Forms

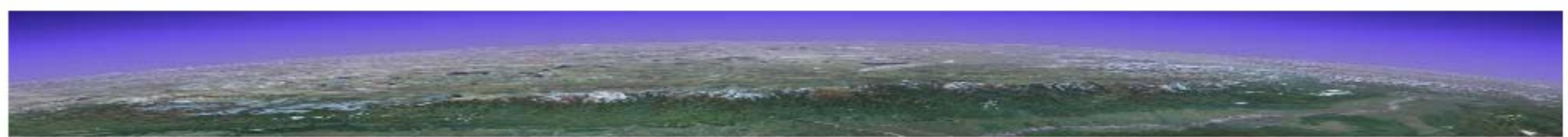
Quick Search

Map Search

Interactive Search

Upload Template

My Profile



This part of the site is for researchers who are actively working on inputting and editing data. It includes a "My Data" capability where researchers can host their data until they deem it appropriate to "publish" the data and make them available to the public. Registration is required for this part of the site, and the user will utilize a login process for access, but only to data for which they are the registered steward or a registered member of a project team. In addition, registered users have access to (but cannot edit) all public data.

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Data Input - Secure workspace for individuals and projects



A COMMUNITY INFORMATION SYSTEM FOR PALEONTOLOGY AND SEDIMENTARY GEOLOGY

LOGOUT wsnyder@boisestate.edu

HOME PUBLIC ACCESS PERSONAL AND PROJECT WORKSPACE TOOLS DATABASE PORT
 Introduction Sample Data Forms Sed Strat Data Forms Quick Search Map Search Interactive Search

GO = WORK ONLINE
DOWNLOAD = WORK OFFLINE

1) DATA REGISTRATION FORMS (Metadata in these forms are required before the detailed data can be entered; this preserves the integrity and quality of the data and allows samples to be assigned an IGSN).

GO DOWNLOAD Stratigraphic Section Registration GO DOWNLOAD Sample Registration

2) DATA DETAIL FORMS:

Online	Offline	Template	Online	Offline	Template
GO	DOWNLOAD	Paleontology	GO	DOWNLOAD	Laboratory Details
	DOWNLOAD	Geochronology	GO	DOWNLOAD	Sample Properties
	DOWNLOAD	Petrology	GO	DOWNLOAD	Major Oxides
GO	DOWNLOAD	Paleomagnetic	GO	DOWNLOAD	Trace & Single Elements
			GO	DOWNLOAD	Oxygen & Carbon Isotopes
			GO	DOWNLOAD	Inorganic Compounds
			GO	DOWNLOAD	Organic Compounds
			GO	DOWNLOAD	Radiogenic Isotopes

Clear All Selected Items
 Show Search Results



Microsoft Excel - U-Pb_Data_Template[1].xls

U-Pb GEOCHRONOLOGY																				
RATIOS									ISOTOPIC AGES (Ma)							238Th-DISEQUILIBRIUM CORRECTIONS				
206Pb	208Pb*	205Pb*	error	207Pb*	error	202Pb*	error	corr. coef.	206Pb	error	207Pb	error	202Pb	error	Discordance	Used in	206Pb*±230Th	error	206Pb±230Th	error
		238U	(% 2s)	235U	(% 2s)	206Pb*	(% 2s)	207/235-206/238	238U	(abs. 2s)	235U	(abs. 2s)	206Pb	(abs. 2s)	(%)	Age Calc.?	238U	(% 2s)	238U age	(abs. 2s)
526.03	0.97	0.04209	0.39	0.29893	0.75	0.0515	0.6	0.6	265.8	UPb_AG1	265.6	UPb_AI1	263.5	UPb_AK1	UPb_AL1	y	UPb_AN1	UPb_AO1	UPb_AP1	UPb_AQ1
280.63	0.99	0.04203	0.1	0.29891	0.95	0.05150	0.11	0.69	265.4	UPb_AG2	265.5	UPb_AI2	267	UPb_AK2	UPb_AL2	y	UPb_AN2	UPb_AO2	UPb_AP2	UPb_AQ2
859.96	0.99	0.042	0.8	0.29853	0.83	0.05185	0.18	0.98	265.2	UPb_AG3	265.2	UPb_AI3	265.6	UPb_AK3	UPb_AL3	y	UPb_AN3	UPb_AO3	UPb_AP3	UPb_AQ3
1962.45	0.97	0.042	0.16	0.2985	0.29	0.05154	0.23	0.61	265.2	UPb_AG4	265.2	UPb_AI4	265.1	UPb_AK4	UPb_AL4	y	UPb_AN4	UPb_AO4	UPb_AP4	UPb_AQ4
1713.47	0.95	0.04192	0.49	0.29822	0.54	0.0516	0.22	0.91	264.7	UPb_AG5	265	UPb_AI5	267.5	UPb_AK5	UPb_AL5	y	UPb_AN5	UPb_AO5	UPb_AP5	UPb_AQ5
1232.09	0.97	0.04173	0.17	0.29711	0.29	0.05164	0.22	0.65	263.6	UPb_AG6	264.1	UPb_AI6	269.3	UPb_AK6	UPb_AL6	n	UPb_AN6	UPb_AO6	UPb_AP6	UPb_AQ6



All "published" data available to all workers



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Getting Data Out - Download

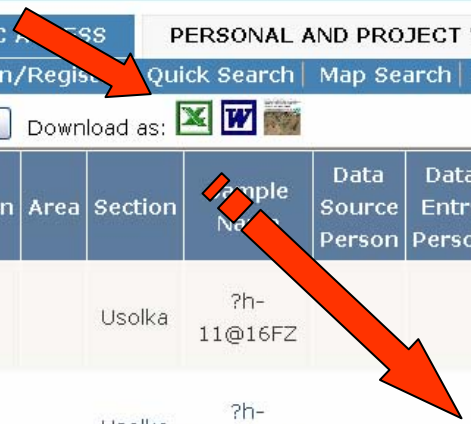
LOGIN

HOME PUBLIC ACCESS PERSONAL AND PROJECT WORKSPACE TOOLS

Introduction Login/Registration Quick Search Map Search Interactive Search

SEARCH AGAIN Download as:

sample_id	Region	Area	Section	Sample Name	Data Source Person	Data Entry Person	Group	Genus	Species	sample_purpose	Lithology	Latitude
1571			Usolka	?h-11@16FZ			Conodonts	Streptognathodus	gracilis		Lime Mudstone / Micrite	53.924
1571			Usolka	?h-11@16FZ			Conodonts	Gondolella	magna		Lime Mudstone / Micrite	53.924



Microsoft Excel - search_results[6].xls

	A	B	C	D	E	F	G	H	
1	sample_id	Region	Area	Section	Sample Name	Group	Genus	Species	sample_id
361	1719			Usolka	88 VD 7-F	Fusulinids	Rauserites	compactus	
362	1719			Usolka	88 VD 7-F	Fusulinids	Rauserites	cybea	
363	1719			Usolka	88 VD 7-F	Fusulinids	Quasifusulina	eleganta	
364	1719			Usolka	88 VD 7-F	Fusulinids	Rauserites	shikhanensis	
365	1719			Usolka	88 VD 7-F	Fusulinids	Rauserites	dictiophorus	
366	1720			Usolka	88 VD 8-F	Fusulinids	Rauserites	petchoricus	
367	1720			Usolka	88 VD 8-F	Fusulinids	Rauserites		
368	1720			Usolka	88 VD 8-F	Fusulinids	Rauserites	triangulus	
369	1720			Usolka	88 VD 8-F	Fusulinids	Schwageriniformis	kurshabensis	
370	1720			Usolka	88 VD 8-F	Fusulinids	Rauserites	elongatissimus	



PALEONTOLOGY WORKBOOK - SAMPLE REGISTRATION

Microsoft Excel - Strat_Paleo_WkBk_v3_Mar_29_06B.xls

File Edit View Insert Format Tools Data Window Help

Close [Icons] 100% Arial 10 B I U [Icons] \$ % , +.0 .00

SAMPLE REGISTRATION		SAMPLE REGISTRATION									
SECTION / DRILL HOLE / WELL NAME	IGSN	PRIMARY SAMPLE NUMBER	EXPEDITION / FIELD TRIP	SAMPLE TYPE	SAMPLE PURPOSE	SAMPLE WEIGHT	DATE COLLECTED	LITHOLOGY	SAMPLE		
TestSection		ZZZ001	So								
TestSection		ZZZ002	So								
TestSection		ZZZ003	So								
TestSection		ZZZ004	So								
TestSection		ZZZ005	So								

SAMPLE FIELD DESCRIPTION	PUBLIC ACCESS ("PUBLISHED")	
	YN	Date Publish (automatic en
Clastone and stilstone interbedded	Y	4/15/2011
Hard rock	y	4/15/2011
Micritic mudstone with nodules	Y	4/15/2011

POINT LOCATION / FIELD OR STRAT SECTION				
UTM				
E/W	Datum	Zone	Coordinate	MA
E	WGS84	40	557859	543
E	WGS84	40	557859	543
E	WGS84	40	557859	543
E	WGS84	40	557859	543
E	WGS84	40	557859	543

LAST KNOWN ARCHIVER

Sample Reg / SubSample Reg / Paleo General / Paleo Taxa / Sample Age / Ref Assignment / Reference Library

PALEOSTRAT'S VISION

- PaleoStrat must provide:
- 1) a database that can accommodate all relevant data and metadata,
 - 2) user-friendly ways to capture these data,
 - 3) a user interface for users and projects to store and retrieve published data,
 - 4) simple, but powerful ways for the user to find the information they need, and
 - 5) access to the tools necessary analyze and assess data.

DYNAMIC WORKING ENVIRONMENT

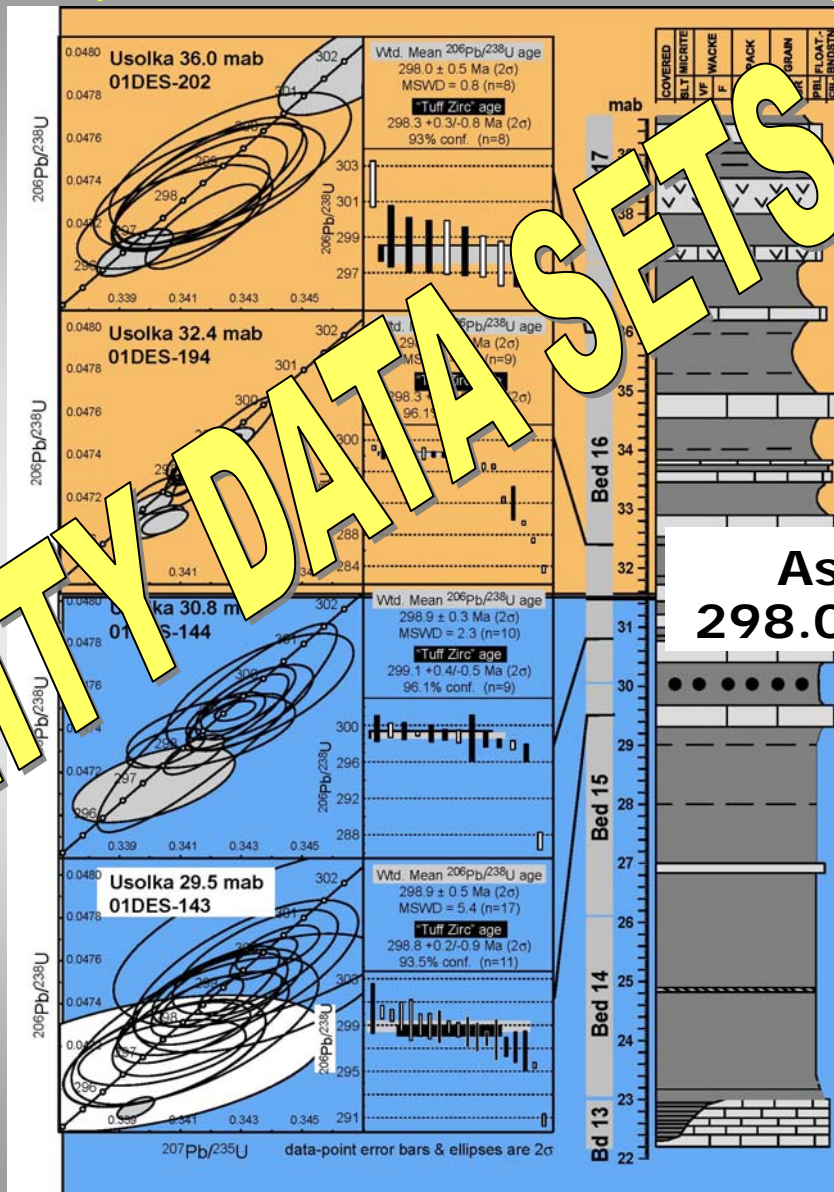


New Radiometric ages at C-P boundary Usolka Stratigraphic Section, Southern Urals Mountains, Russia

Abundant volcanic tuffs = ages for:

- Sakmarian
- Asselian (Permo-Carb)
- Gzhelian,
- Kasimovian
- Moscovian

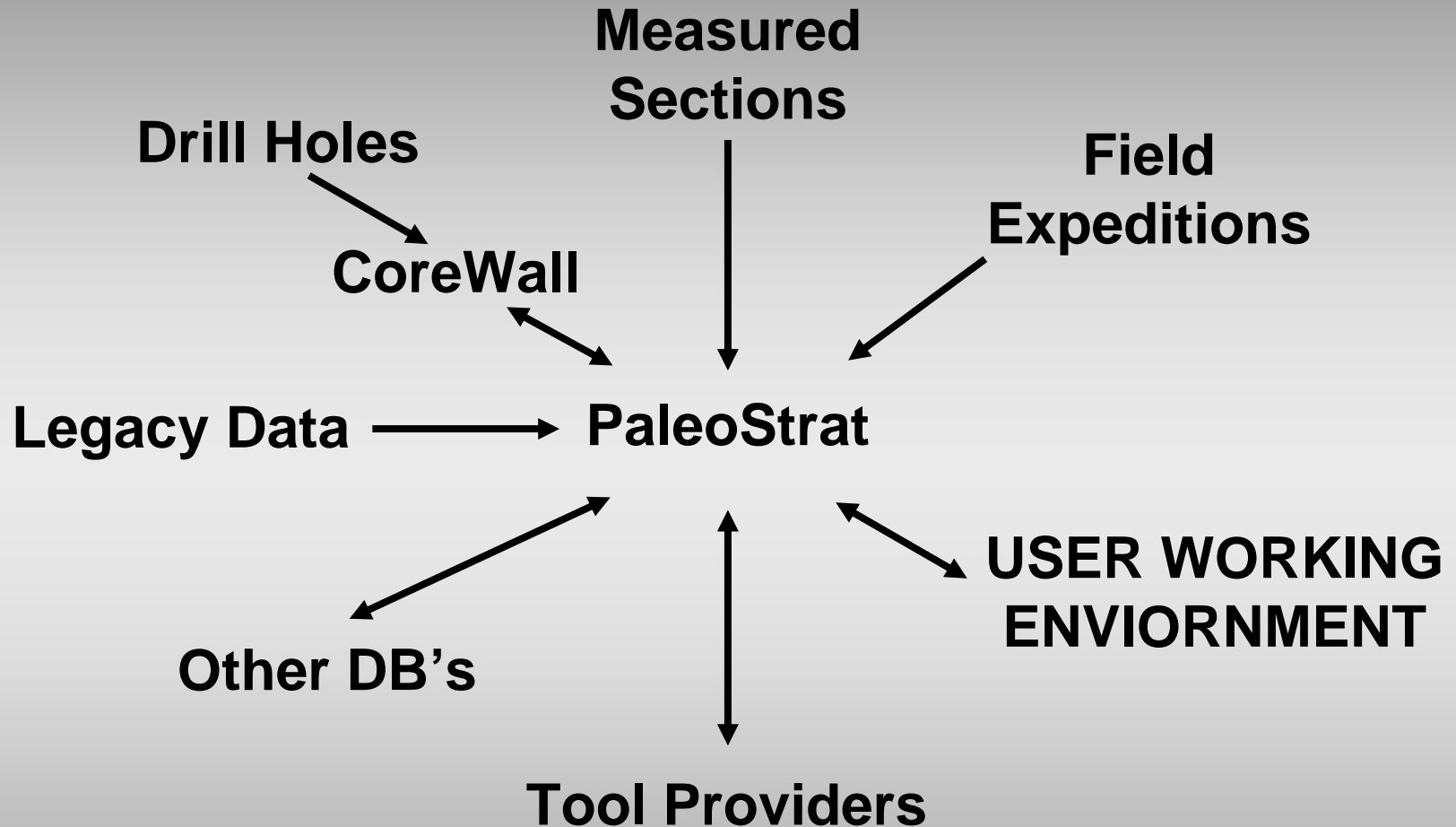
COMMUNITY DATA SETS



Asselian
298.0 + 0.3Ma



PALEOSTRAT - COMMUNITY WORKING ENVIRONMENT



Geoinformatics Partnerships

Realization:

1. no single geoinformatics entity can do it alone

We must be willing to:

2. share concepts and approaches to capture the knowledge of our science,
3. exchange IT knowledge and approaches, and
4. reduce unnecessary competition and duplication.

This workshop is a great step in the direction of collaboration

Working with Data

DATA CAPTURE

- *Automated – core loggers, image analysis*
- *Text Description – parse to database*
- *Visual construction – core descriptions, images, graphic logs, etc.*
- *Pick-box forms -*
- *Excel – the comfort zone*

DATA ANALYSIS

- *Data Extraction – typically a subset*
- *Tools – variety of numeric and visual.*

DATA OUTPUT

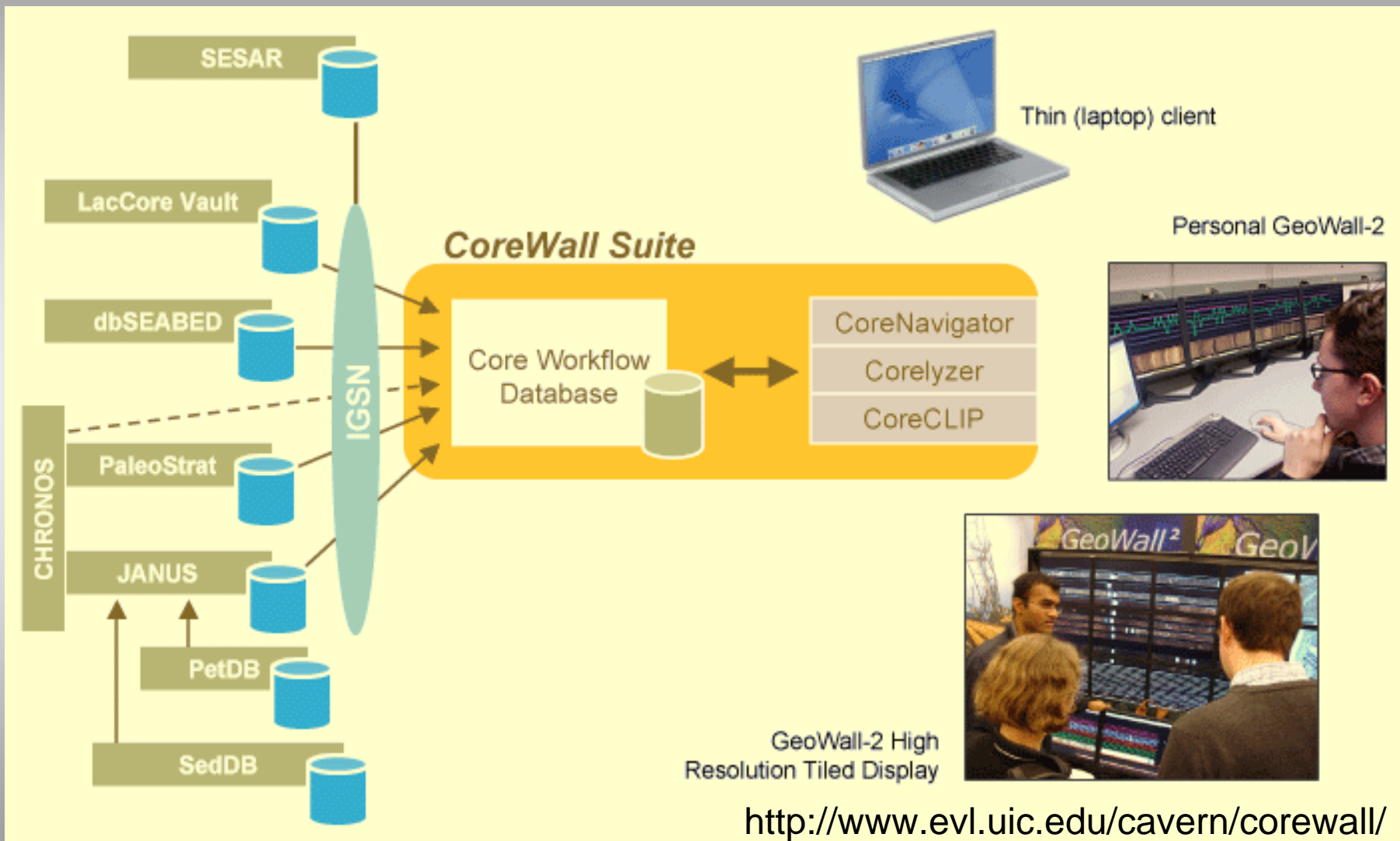
- *Reports – text + images in a variety of formats*
- *“Raw” data - variety of formats*
- *Visual Compilations – variety of formats*

PaleoStrat - CoreWall Partnership

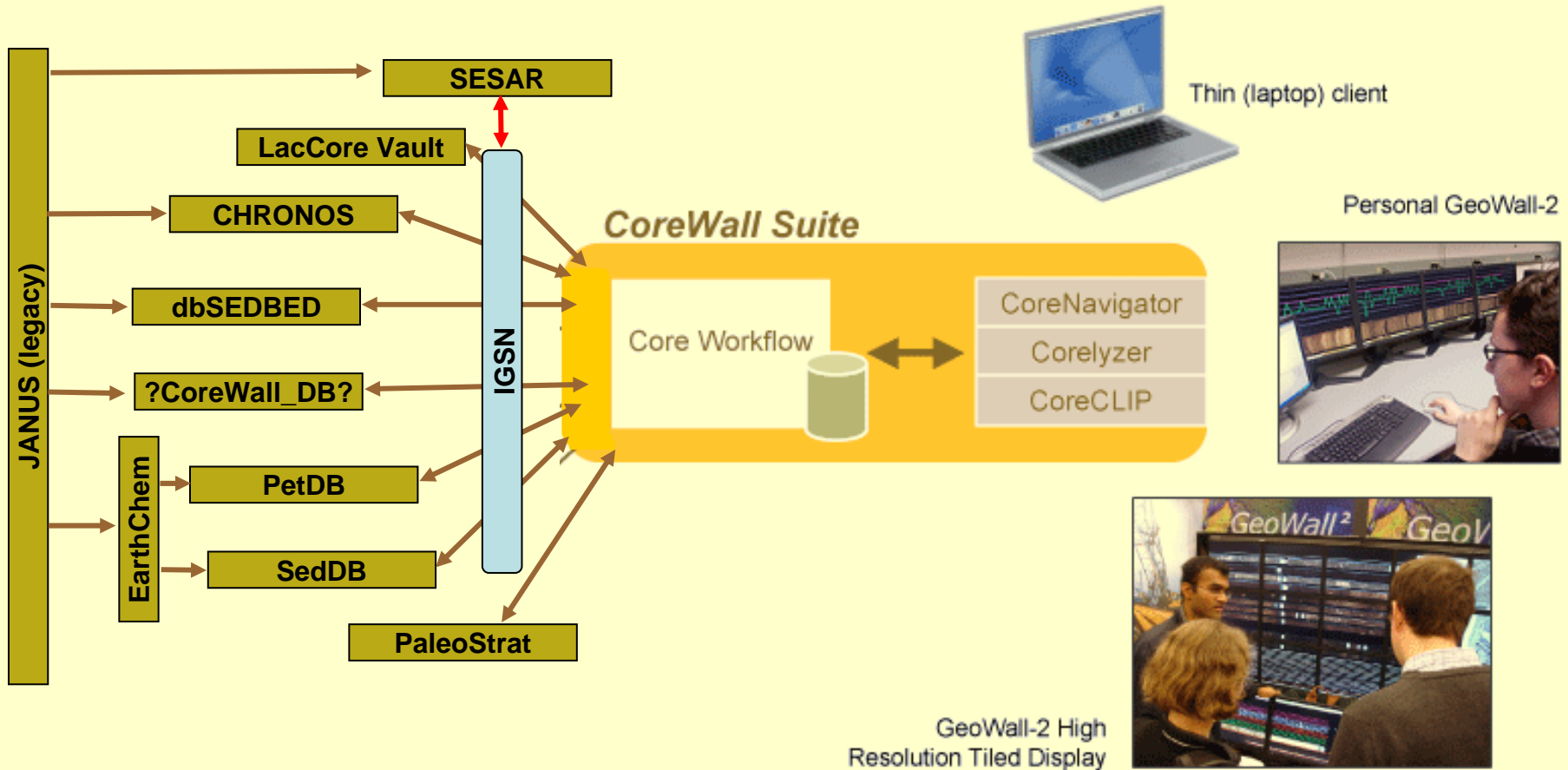
Goals:

1. Provide an environment for complete visual core description, integration of multi-sensor core-logger data, and the acquisition of post-drilling data.
2. Provide the means to capture the full geologic context of the cored stratigraphic succession
3. Meet the needs of both the specific project and larger, longer-term research by the Earth science community on the drill core
4. Provide a variety of approaches and tools for data mining, extraction, output and synthesis.
5. Provide a dynamic working environment for all community users

Proposed connectivity between databases and the CoreWall Suite



Food for thought - revised view of relationships



END