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.

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.
From there to now:

1995

NOW

Future = More Changes!

SOON
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

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.
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

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.
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

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.
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

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.
DATA PORTALS – CUSTOMIZED FOR SPECIFIC USER GROUPS

International Commission on Stratigraphy
Subcommission on Permian Stratigraphy

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

Digital Information System for Deep-time Earth Processes
www.paleostrat.org
Global Stratotype & Section Point for Pennsylvanian-Permian boundary: Aidaralash creek section, Southern Ural Mountains, Kazakhstan

Accepted in 1996
PALEOSTRAT CAPTURES INTEGRATED DATA SETS:

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

Copyright © 2006, Boise State University
Data Input - Secure workspace for individuals and projects

GO = WORK ONLINE
DOWNLOAD = WORK OFFLINE
All “published” data available to all workers

Getting Data Out – Download

Digital Information System for Deep-time Earth Processes

www.paleostrat.org
PaleoStrat must now be:
1) a database that can accommodate all relevant data and metadata types,
2) user-friendly ways to capture these data,
3) a secure area for users and projects to store unpublished data,
4) simple, but powerful ways for the user to find the information they need, and
5) access to the tools necessary to analyze and assess data.
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

Asselian 298.0 ± 0.3 Ma
Geoinformatics Partnerships

Realization:
1. no single geoinformatics entity can do it alone
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.

We must be willing to:

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

http://www.evl.uic.edu/cavern/corewall/
CoreWall: 8 May, 2006

Digital Information System for Deep-time Earth Processes

www.paleostrat.org

LacCore Vault
CHRONOS
dbSEDBED

CoreWall Suite

CoreWorkflow
CoreNavigator
Corelyzer
CoreCLIP

JANUS (legacy)

EarthChem
PetDB
SedDB

GeoWall-2 High Resolution Tiled Display

Food for thought - revised view of relationships

CoreWall: 8 May, 2006

Digital Information System for Deep-time Earth Processes

www.paleostrat.org
END