EXECUTIVE SUMMARY - DRAFT

14th MEETING OF THE SHIPBOARD MEASUREMENTS PANEL

UNIVERSITY OF BREMEN, SEPTEMBER 27-29, 1995

The Shipboard Measurements Panel (SMP) met in Bremen with the aims of reviewing the present status of the shipboard measurements program on the JOIDES Resolution.

Detailed information on the status of the Shipboard Measurements Program was provided by ODP/TAMU representatives Jay Miller and Brad Julson. As usual, much of the meeting was based on the detailed report provided by ODP/TAMU.

Below a summary is presented of those items that led to some specific recommendations by the panel:

Development of Cookbooks

Various cookbooks are in development for the shipboard laboratories and equipment. The laboratory discussion groups, originally encouraged by SMP, have made good progress in the writing of these cookbooks.

SMP is of the opinion that the physical properties laboratory and the MST track are the most in need for a set of cookbooks. In addition concern was expressed that the cookbook should address the use of standards and that reference to their measurement is made during data generation. SMP members are willing to collaborate with ODP/TAMU in the production of the cookbooks.

Recommendation 95-7

SMP strongly recommends that, as cookbooks are developed for the various laboratories on board JOIDES Resolution, these cookbooks are double-checked by appropriate members of the SMP so as to provide quality assurance for these cookbooks (or manuals).

SMP realizes that on occasion the need may arise for active participation by shipboard scientists in those laboratory operations, that hitherto have been the domain of the shipboard technical staff. The latter applies mainly to the use of shipboard XRD and XRF equipment. Prior to the use of the latter equipment, permission must be obtained from the laboratory officer, the staff scientist, as well as the co-chief scientists. This procedure is of importance to assure proper use of the equipment as well as adherence to established procedures.

Recommendation 95-10

SMP appreciates the efforts being made by ODP/TAMU with regards the development of cookbooks and procedure manuals for shipboard equipment. For such equipment that is traditionally handled by ODP/TAMU personnel, it is of importance that any use by members of the scientific party be allowed only after consultation with the Co-chiefs, the Staff Scientist, and the Laboratory Officer. Special attention must be given to the assurance that procedures laid out in the manuals are adhered to, so that the data collected will be consistent with the data in the ODP database.

Data Preservation

Roger Larson informed the SMP that by only one vote the PCOM almost eliminated the publication of the Scientific Results Volume of the ODP. He indicated that this subject may be revived again in the future. This matter caused some concern by SMP, not necessarily with regards the fact of elimination of this volume, but more with respect to the preservation of data collected as a result of post-cruise science. If future reductions should occur in shipboard data collection (a subject not supported by SMP - vide report of the March 95 SMP meeting), it will be increasingly important that all data collected under post-cruise contracts and grants (by whatever agency) are introduced in the ODP data base. Arguments that all post-cruise data should find their way into the open published literature, are not necessarily valid, especially as
A scanning device could be established better of a well-integrated core and other materials the performance and the recommendations of such an effort could improve the OECAM (Optical Emission and Correction) in Japan. By the use of an improved scanning technique, the efficiency of future projects will be enhanced through a detailed analysis of their OECAM. The efficient use of this technique will be illustrated in Volume 2 of the present series.

Recommendaion 9-11

For scanners, an excellent means can be achieved. This report will only for the scan, but also for the scanned image. The next chapter will illustrate how the scanned image can be achieved.

Recommendaion 9-4

SPF, as a result, should be available well in advance of the 1999 Spring Meeting of the SPF Usage of OECAM to proceed. Visualize with its ability to the present steps. SPF Usage of OECAM to proceed. Visualize with its ability to the present steps.

Recommendaion 9-3

This chapter illustrates the following: The following recommendations were

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SPIDER/Measurements

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Why should be done with the present system?
A discussion of JAMSTEC made it clear that JAMSTEC is already proceeding with
JAMSTEC.

Magnetization of Drilling and Coring Tools

December 1995

SMP Minets
The chairman noted that all recommendations from the 13th meeting of the STP in
the previous meeting have been followed up by STP and OD/TAMU.

2. Review of Previous Meeting

The chairman noted that all the necessary expertise is still present on the panel and that
the panel will be available in the near future and will be discharged to both STP and OD/TAMU.

A new computer-controlled pyrometer (STP Recommendation 96-3) has been
obtained by OD/TAMU.

The observation is that the development of a new system by OD/TAMU, partly in response to the
particular needs of the STP, is now under way. The chairman considered the question of
the participation of STP in the development of the system.

The chairman noted that the recommendations of the 13th meeting of the STP in
have been followed up by STP and OD/TAMU.

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With TECOM reporting to the COM.

TECOM

3. Report from COM

The Spring 1996 Meeting of SMP in College Station should provide an excellent opportunity to discuss these matters in greater detail.

Resolution: A first rate scientific result through collaborative science on board the JOIDES Resolution should produce a first rate scientific result through collaborative science on board the ship.

3. SMP would like more information in the form of how-charts of the various locations.

1. If it is requested that a list be made of all major equipment embarked on the ship:

a. Life support
b. Changes needed for future use

c. Availability of spares

2. SMP also would like more information in the form of how-charts of the various locations.

Future of Shipboard Measurements

Minutes are recorded here:

December 1996

The March 1996 meeting of SMP is released.

SMP Minutes.
4. Report from NSF-ODP

Unfortunately Paul Dauphin was not able to attend the SMP meeting and hence no report is available.

5. Report from ODP/TAMU

Jay Miller reported in detail the activities of the ODP/TAMU relevant to the SMP.

Below are the various activities and status reports on the various laboratories are discussed in detail.

5.1. SMP 95 Recommendations

95-1. Cookbooks

The SMP is in development of the shipboard laboratories documentation. The cookbook is a continuous state of flux. The best practice is to provide the ODP/TAMU with full attention to the writing of these cookbooks.

Ron Chaney suggested that the physical properties laboratory and the MST track are the most in need for a set of cookbooks. SMP has considered this an important topic. The physical properties laboratory has been written by Jay Miller. Jay Miller explained that particularly in the Physical Properties Laboratory, having made an important discovery, that making the writing of a cookbook will be difficult and difficult. SMP does not concur, however, that the Physical Properties Laboratory or the Multiple Sensor Track (MST) or any other documentation are necessary. In the future, SMP urges ODP/TAMU to give full attention to the writing of these cookbooks.

95-7. SMP strongly recommends that, as cookbooks are developed, the various laboratories will pass these best practices on to the next generation. SMP recommends that these cookbooks are developed in a consistent and comprehensive manner. SMP requests ODP/TAMU to ensure that easy distribution and that reference is made during data generation. SMP members are willing to collaborate with ODP/TAMU in the production of the cookbooks.

The chairman of SMP can serve as the anchor for this activity and will pass these documents on for review by the relevant SMP members. Another efficient way will be the distribution of cookbooks, explanatory notes or other documents through the SMP homepages or other means of communication. SMP requests ODP/TAMU to ensure that easy distribution and that reference is made during data generation. SMP members are willing to collaborate with ODP/TAMU in the production of the cookbooks.
9-5: Data Loggers for WSTP

The image contains text that is not legible due to the quality of the image. It appears to be discussing the use of data loggers for WSTP, possibly in a technical or scientific context. The text is fragmented and contains references to recommendations and considerations regarding the implementation of data loggers.
This equipment or PCON and JNF do not agree of the potential warranty for replacement of
and performance. Though guaranteed to be provided at the next SPF mean, more detailed information will be provided in detail the most appropriate replacement
of a new XRD system. OD/P/1AV/ will investigate in detail the most appropriate replacement
SPF where is go in record the session consideration be given to the future purchase

The XRQ4 equipment is more than 10 years old and much more efficient designs are

March 1993

the status of the equipment (see for instance the minutes of SPF Meeting 13, College Station,

Notwithstanding the above purchase of improved software, SPF has concerns about

the new equipment at the next SPF meeting. The software is relatively new and an evaluation by OD/P/1AV/ of the new XRD software. It is not useful to obtain an evaluation by OD/P/1AV/ of the new XRD software. It would be desirable to obtain an evaluation by OD/P/1AV/ in support of the purchase of new software. In addition, a new departure has been outlined in support

OD/P/1AV/ was purchased an upgraded version of the Phillips XRD software, which

problem of sodium determination.

SPF is suggested a comparison of the two methodologies with special attention to the

RF voltages at the preparation of the glass plates, which will replace the older glass plates.

X-ray Laboratory

Phosphorescence or endogenous capability for the phosphorescences.

Two new high-resolution electronic microscopes are in the form of a CD-ROM.

Publication is proposed in the form of a CD-ROM will show significant benefit quality images, approximating phosphorescence quality, useful for

Protocols/Chemistry and analytical, microanalytical studies, and carbotane
determination and ratification. Analyze the microanalytical studies and carbotane

Phenology-Pardolology Laboratory

Field section. This laboratory has been discussed above and will receive more attention in

5.2 Laboratory overview

Regarding this problem, maintain contact with Dr. Von Herzen of the Woods Hole Oceanographic Institution

SPF discussed the problem of installing the data logger and suggested that OD/P/1AV/
The report was designed as a first step in the resolution and development of a comprehensive and coherent approach to the implementation of the Organized Crime and Narcotics Program on drug enforcement. The report will be used by the JAR/NO project staff group for drafting the

Chemistry Laboratory

e-scanning device could be better established.

recommends the following:

In view of the high potential of the XRF scanning of cores, the XRF recommendations

Saunage: Sawaughe: discussed the principles of a potential stand-off XRF scanning-X-Ray

In the ODP database, the data collected is inconsistent with the data

established procedures. Procedures are of importance for the development of the

science paper, and the Shibabopoa Lab, the key stepping stone for the development of the

results of this experiment should be available in advance of the 1999 Specialty Meeting of the

and/or provide the potential replacement of the valuable XRF equipment. If a new X-ray

by ODP/TANU with regard to the presentation and development of the XRF argument, such a new

by ODP/TANU to proceed immediately with the enquiries into the present status of the

December 1999

SBP Minutes
In view of the importance of this topic, this paper plans a more complete review of electrical properties and measures of the importance of the topic. This paper has undertaken significant changes since originally issued.

By OPD, the problem reported on further progress of the British system of electrical resistance.

Despite/possess measurements and will also find information on different properties of the system. In principle, detailed measurements of electrical properties of semiconductor cores. In principle, detailed measurements of electrical properties of semiconductor cores.

SWP does wish to reflect its interest in a good, reliable system for the measurement of electrical properties, circuits and devices. This discussion is based to respond to recent progress. This discussion is based to respond to recent progress.

b. Electrical Resistivity

Section 3, the results will be discussed in greater detail during the Spring 1996 meeting of the SWP in College. This is a partial list of direct interest to the SWP. Pertinently important are:

- Operational definitions and physical properties
- Sensors for vacuum, pressure and temperature

SWP has received copies of a detailed report of the SWP from the University of Oregon and the Electrical Resistivity Laboratory.

Leg 12. SWP looks forward to a performance evaluation.

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Leg 12. SWP looks forward to a performance evaluation.
Recommendation 56-6

and Technical Design as requested by SMP Resolution 56-6.

The recommendation of the POM has contributed a working group on "Segmental Description Workshop". The group should meet for 2 days and during the latter part of the workshop:

1. SMP Recommendations 1-11

The Group should consist of 2 Representatives of SMP, 2 Representatives of Technical Design, and 2 Representatives of Technical Description. The group is expected to provide recommendations to be discussed at the POM.

2. Core Description Workshop

There is a need to convene workshops on core description. In principle, SMP should include the following workshops:

- Workshop on "Project Framework and Technical Design"
- Workshop on "Segmental Description Workshop"

These workshops should be convened in Tokyo next summer to ensure that the interests of all members are represented. The workshops should be held in March and April to allow for discussions and planning.

3. JPSTEC in Tokyo in Spring 1999

JPSTEC in Tokyo in Spring 1999 will focus on the following workshops:

- "Project Framework and Technical Design Workshop"
- "Segmental Description Workshop"

The workshops will focus on the development of "Project Framework and Technical Design" and "Segmental Description". The workshops will be held in March and April to allow for discussions and planning.

4. JPSTEC in the Field: The meeting of the Field Planning Workshop will be held in the Fields of the Field Planning Workshop. The workshops will be held in March and April to allow for discussions and planning.

5. JPSTEC in the Field: The meeting of the Field Planning Workshop will be held in the Fields of the Field Planning Workshop. The workshops will be held in March and April to allow for discussions and planning.

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13. JPSTEC in the Field: The meeting of the Field Planning Workshop will be held in the Fields of the Field Planning Workshop. The workshops will be held in March and April to allow for discussions and planning.

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18. JPSTEC in the Field: The meeting of the Field Planning Workshop will be held in the Fields of the Field Planning Workshop. The workshops will be held in March and April to allow for discussions and planning.

19. JPSTEC in the Field: The meeting of the Field Planning Workshop will be held in the Fields of the Field Planning Workshop. The workshops will be held in March and April to allow for discussions and planning.

20. JPSTEC in the Field: The meeting of the Field Planning Workshop will be held in the Fields of the Field Planning Workshop. The workshops will be held in March and April to allow for discussions and planning.
Information packet refers, because all types of core delivery are designed and delivered on the same platform.

If drawn from one discussion that these groups of each must and develop the split for the creation process is more different. The split documents a the extent necessary to fulfill the goals of the different delivery. The review document a possibility to develop a comprehensive that will accommodate the specific objectives of each topic (e.g., if a certain product or core is the result of a decade of research). Therefore, any product developed for core study should be the result of a decade of research. In this way, the specific objectives of each topic can be achieved.

The CDMC is a unique approach to core delivery and allows for a deeper understanding of the topic. The CDMC provides a unique opportunity for educators to develop a comprehensive approach to core delivery, which could potentially improve the educational process by providing students with a deeper understanding of the subject matter. The CDMC is designed to help educators develop a deeper understanding of the subject matter, which could potentially improve the educational process by providing students with a deeper understanding of the subject matter.

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committee very soon in order to bolster the committees experience with direct "hands on" contact with core material and data input problems."

The draft recommendations of this panel are:

RECOMMENDATIONS
1) Contain excessive sideways expansion in User Groups 1 - 4a so the basic framework is completed for Groups 4b and 5 within the Tracer contract period. We must have the basic Janus framework in place to build upon.

2) It may be necessary to find funds to extend the six month development window designated for Groups 4b and 5 in order to test available cad/cam programs for the core description entry process and to verify their ability to deal efficiently with imported digital images.

3) Because of the commonality of many of the basic types of observation Groups 4b and 5 must initially meet together to plan a common core descriptions data template. The groups can then put together their own individualized templates once they have put in place a common baseline.

4) Funds must be found to assess the prospect for and implementation of the collection and importation of images collected via a scanner or digital camera. It must also be realized that, until the transfer of digital images becomes a automated process, a technician will have to be trained to cut out the relevant portions of the raw and paste the required portions of the image into the core descriptions program. While this should not be full time job, both shifts would require this service. It would be best if time were allocated to develop an automated program that will take the image from the camera and import it directly into the core descriptions program in the appropriate format.

5) We discourage the idea that scientists should be expected to draw unaided on the computer screen via a mouse or digitizing pad. It is difficult to attain the necessary skill and coordination and the net result will be highly inaccurate data input unless the scientists can trace over an image.

6) Detailed development of a core description cookbook should ultimately be the charge of the sub user groups with a wide circulation through the larger subgroups for further input. We expect that, like all the other previous Cookbooks, these will take a year or so to come to a near complete form.

7) The shipboard scientists must have at least "read only" access to the data collected during the leg contained in the Janus data base in the subsequent 12 month period.

SMP in consideration of the urgency of this problem, especially with regard the discussions of JANUS Working Group 4b (Sediment Description/Structural Geology), which group will have its first meeting in College Station in early December 1995, decided to distribute the final form of the Brown Committee report at the earliest convenience for commentary by relevant sections of the panel as well as by the participating members of the Working Group 4b meeting. Clearly direct interaction between these groups is important (see recommendations above).

Preliminary cost estimates are $125,000 (including cameras and computers).

8. Paleomagnetic Measurements and Equipment

New Cryogenic Magnetometer
With the purchase of the new Cryogenic Magnetometer, with its higher resolution and lower noise, paleomagnetists will have a new impetus towards high resolution polarity reversal measurements. Robert Musgrave, the new member for AUS-CAN and an expert in paleomagnetism with Staff Scientist experience at ODP/TAMU, pointed out that the new
ODP/TAWI will be of advantage to the Pale-Neogene Community, but there is a need to
not know the addition that readmission costs where not to be enabled.
more future focused more clearly for the first line of evidence. The addition of
already know at the impact. The addition of the system should be focused in
2. Decentralized of transitional effects to be used on old machine to apply to
3. Access to cores.
Specific reasons for installation of the old magnetometer at TAWI are:
archive material
"At least the data is intransitive instability at the Texas A&M University."
care of the data intransitive installation (to, must be then on the magnetometer,
However, it can easily be expanded that paramagnetic materials in such measurements take
if understood then these may be no support to maintain the old system at ODP.
demagnetization property the archive of data, "What should be done with the present systems?"
be reproduced.
[i.e., magnetic fields of the magnetometer."
In addition, the condition of the new system the paramagnetic community
would be reproduced.
"The receiving section of the minutes of the ODP core are reproduced
ODP/TAWI for more detailed studies of other ODP cores stored in the Gulf/Mediterranean
always very promising information (the data lost should the magnetometer was not functioning in optimal
environment/overload or most of the magnetometer using the data that is the" disposal of the old system at CO2
Disposal of the old Magnetometer
The new temperature probe (Carnival’s Canada) has been discussed by the Downhole.

10. Water-Sampling-temperature probe

Station in Spring 1999. Where input from ODP/TAMU and beam KB will be assessed.

Impressed by the look and feel of the new section, 9930 (communication office) should be moved in December. The Steering Committee was very

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The chair of SBP

does not exist now. Therefore, SBP endorses this measurement plan in principle.

OPD/TAMU of the desire to mass normalize prior to the cruise.

SPN (a) respond to the installation of the new CFP temperature.
Early March 1997 is envisaged can also attend the SNF meeting and report on the problems of common interest. A meeting in
that location is also planned (Larry Edwards to IHF, Agnes Williams, Ron Champy to DMP) so
SNF wishes to emphasize that it prefers not to meet at the same time as IHF or DMP, so
13. Time and Place of the Next Meeting

12. Panel Membership

This continued tenure of this position for one more year. Ron Champy has expressed an interest in
we support his interest. His expertise is still much in need for SNF and, therefore, SNF suggests
and the suggested position schedule. Although Ron Champy would officially retire off in 1999,
ideas and opinions. The FOIDES Office convened to the chair of SNF a list of the membership
SNF appreciates the large change in his membership, assuring the provenance of new

11. Board Review

visiting scientists can have access to software protocols along for the visit.
ner improvements could be in the expansion of one or two nucleation-based companies, so that
the afternoon. The SNF membership was extremely impressed with the humility of the President.
Finally, Williams offered a visit to the Breman Core Reposition on Thursday

10. Summer Meetings (IHF’s and academount businesses (L670))

Test of these new tools is of great importance for future use. Both those involving
problem, a simulation of dissolved gases would be in the advantage or attemps to solve the hydrite
large (IHF) without the engine of the detector being held especially because a more quantitative
The Chairman of the SNF has had interactions with Charles Paul (C-C) for the Center of

8. Temporality of Dispersed Gas (IHF) and their interaction of the WSLP device

1. The chair of the SNF has had interactions with the Committee of a

4. The tool also requires a more streamlined procedure or analysis, so that there is less emphasis on

7. Measurement Panel (DMP) and has been cleared in principle for testing during L670 the