

Hours for Technical Sessions	Hall	Comm.	SCIENTIFIC-TECHNICAL PROGRAM	SOCIAL EVENTS and PROGRAM FOR ACCOMPANYING PERSONS
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SUNDAY, JULY 13

DIMANCHE, 13 JUILLET

SONNTAG, 13. JULI

Registration, Foyer of Congress Center Hamburg, 12.00–20.00

MONDAY, JULY 14

LUNDI, 14 JUILLET

MONTAG, 14. JULI

Opening Ceremony, Hall 1, 10.00–12.30

13.30	Hall 7		Information Meeting	SP2 Welcome for accompanying visitors, Hall 4, 12.30–14.00
14.30	Hall 12	IV	Business Meeting	
15.00–16.00	Hall 7	V	Business Meeting	
15.00–17.00	Hall 2	II	Special Meeting, New Equipment Chairmen: <i>M. Baussart</i> , France <i>A. Fontanel</i> , France Analytical and Analog Photogrammetry, Orthophotography, Special Equipment for Image Processing, Plotting Tables, Equipment for Remote Sensing, Display Units and Interacting Systems	SP3 Reception given by the Senate of the Free and Hanseatic City of Hamburg in the Town Hall, 18.00
15.00–16.30	Hall 6	VII	Main Topic: Natural Land Resources, WG1 Chairman: <i>J.J. Ulliman</i> (USA) <i>J.A. Szorenyi</i> (USA): Remote Sensing in Western Australia <i>A.B. Viola, C.M. Viola Binaghi</i> (RA): Satellite Landsat-Skylab Evaluation of Selected Natural Resources of the Argentine Republic at Scales 1:125.000 and 1:250.000 of more than 1.000.000 km ² <i>A. Linsenbarth</i> (PL): Development and Application of Remote Sensing in Poland <i>C.M.R. Carneiro</i> (BR): Planimetric and Thematic Mapping Potential of Landsat MSS Imagery for Integrated Surveys of South Brazilian Natural Resources <i>S. Zenker</i> (S): Operational Use of Satellite Imagery – are we there yet?	
15.00–16.30	Hall 8	VII	Main Topic: Vegetation Damage, WG2 Chairmen: <i>C.M. Girard</i> , France <i>P.A. Murtha</i> , Canada <i>A. Berg</i> (I): Remote Sensing Techniques Applied to Sugar Beet Diseases in Germany and Italy: Introduction to the Results of a European Project <i>E. Sanwald</i> et al. (FRG): Differences in the Spectral Characteristics of Healthy and Diseased Crops as Determined for Sugar Beets and Winter Barley <i>E. Sanwald</i> (FRG): Spectrophotometric Measurements in Laboratory and Ground Truth Data Collection	

TUESDAY, JULY 15

MARDI, 15 JUILLET

DIENSTAG, 15. JULI

Technical Excursions T1.03 Lufthansa workshops, Hamburg airport, 8.30–13.30

T1.08 Land consolidation and coastal protection 12.30

9.00–10.30	Hall 2	IV	Main Topic: Digital Map Compilation and Cartographic Treatment of Digital Data Chairmen: <i>J.M. Zarzycki</i> , Canada <i>O.R. Gauthier</i> , Canada <i>J.M. Zarzycki</i> (CDN): Report of Commission IV <i>C. Eidenbenz</i> (CH): Report of first joint meeting ICA-ISP-FIG <i>A.A. Elassal</i> (USA): Status of Software in Digital Mapping <i>G. Petrie</i> (GB): The Hardware Aspects of Digital Mapping <i>G.H. Ligterink</i> (NL): Photogrammetric Mapping Systems Supported by Computers	HH1 Sightseeing tour of the city and port 9.00–12.00 T1 Day excursion to Bremen 9.00–17.00 SP4 Grand organ concert 20.00 in St. Jacobi's Church HH2 Hamburg by night 21.00–1.00
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9.00–10.30	Hall 4	I	<p>Main Topic: Image Quality Analysis, WG1 Chairman: <i>R. Welch</i>, USA</p> <p><i>I. Nakajima</i> (J): Report of Commission I, IP <i>R. Welch, P. Slater, H. Tiziani, C. Trinder</i> (USA): Report of WG1, IP</p> <p>Panel Discussion: Quality Analysis Methods for Spacelab Mission Film Selection Moderator: <i>H. Schroeder</i> (FRG) Panelists: <i>G. Ducher, J.P. Pinson</i> (F) <i>G. Togliatti</i> (I) <i>J. Sievers</i> (FRG)</p> <p><i>W.M. Strome</i> (CDN): Effective Radiometric Resolution Element (ERRE), IP</p> <p><i>P. Noukka, A. Savolainen, A. Laiko</i> (SF): An Empirical Study of the Visibility of Targets</p>
9.00–10.30	Hall 8	VII	<p>Main Topic: Vegetation Damage, WG2 Chairman: <i>C.M. Girard</i> (France)</p> <p><i>H.E. Nilson</i> (S): Application of Remote Sensing Methods at Macroscopic and Microscopic Levels in Plant Pathology</p> <p><i>Kannegieter</i> (NL): The Use of Various Film/Filter Combination in Aerial Photography for the Detection and Assessment of Disease Attack in Winter Wheat</p> <p><i>E. Sanwald, V. Voss</i> (FRG): Aerialphotography as an Aid for Rice Damage Surveillance</p> <p><i>H. Helbig</i> (FRG): Erkennung von Pflanzenschutzmaßnahmen, Düngeeffekten und Ertragsmessungen hoher Genauigkeit aus Luftbildern</p>
11.00–12.30	Hall 4	II	<p>Main Topic: Accuracy Tests for Analytical Plotters, Orthophotography Chairman: <i>M. Baussart</i>, France</p> <p><i>Ph. Hottier</i> (F): Tests globaux d'exactitude pour les restituteurs analytiques (Rapport du G.T.2)</p> <p><i>U.L. van Twembeke</i> (B): Trends in orthophoto equipment, IP</p>
11.00–12.30	Hall 2	VII	<p>Main Topic: Spectral Signatures of Objects, WG9 Chairman: <i>J. Sievers</i>, Fed. Rep. Germany</p> <p><i>J. Sievers, K.T. Kriebel</i> (FRG): Report of ISP Working Group VII/9 "Spectral Signatures of Objects"</p> <p><i>M. Bauer, V.C. Vanderbilt, B.F. Robinson, C.S.T. Daughtry</i> (USA): Spectral Properties of Agricultural Crops and Soils Measured from Space, Aerial Field and Laboratory Sensors</p> <p><i>S. Jaakkola, P. Saukkola</i> (SF): Spectral Signatures of Field Layers and Canopies of Pine Forest Stands in Northern Finland</p> <p><i>G. Guyot</i> (F): Analyse des facteurs dont dépend la variabilité de la "signature spectrale" d'une surface naturelle</p>
14.00–15.30	Hall 6		GENERAL ASSEMBLY
14.00–15.30	Hall 4	VII	<p>Main Topic: Spectral Signatures of Objects, WG9 Chairmen: <i>H.J. Boehnel</i>, Fed.Rep.Germany <i>S. Jaakkola</i>, Finland</p> <p><i>A.F.H. Goetz</i> (USA): Geological Spectroscopy and its Practical Application to Lithologic Identification</p> <p><i>A. Kadro, G Hildebrandt</i> (FRG): Beobachtungen über das spektrale Reflexionsverhalten von Kiefern- und Fichtenbeständen</p> <p><i>W. Schneider, A. Lantschner</i> (A): Zur objektspezifischen Bildortabhängigkeit von Dichtemeßwerten auf Luftbildern</p>
14.00–15.30	Hall 8	VII	<p>Main Topic: Environmental Monitoring, WG3 Chairman: <i>M. Juppenlatz</i>, Netherlands</p> <p><i>H. Beguin, H. Dotu, J. Wilmet</i> (B): Comparison of Classification Methods for Urban Images Interpretation</p>

			<p><i>F. Hendersen</i> (USA): Influence of Radar Azimuth Angle on Small Settlement Detection</p> <p><i>P. Carter, T.F. Smith, W.E. Gardner</i> (GB): Monitoring Urban Growth in the UK from Landsat Satellite Data</p> <p><i>K. Naito, J. Yamamoto, S. Hanaki, K. Akizuki</i> (J): Correlation Studies between Landsat MSS Data and Population Density in Japan</p> <p><i>P. Stock</i> (FRG): Die Klimakarte von Hagen erstellt auf der Basis von Thermalbildern</p>
16.00–17.30	Hall 2	II	<p>Main Topic: Correlation Chairman: <i>Z. Jaksic</i>, Canada</p> <p><i>Z. Jaksic</i> (CDN): Automated Instruments and Systems. Report of WG2</p> <p><i>B. Makarovic</i> (NL): Image Correlation Algorithms, IP</p> <p><i>G. Konecny, D. Pape</i> (FRG): Correlation Techniques and Devices, IP</p> <p><i>G. Lindig</i> (FRG): I.S.P. Correlation Test</p>
16.00–17.30	Hall 4	V	<p>Main Topic: Commission V Reports Chairman: <i>K. Torlegard</i>, Sweden</p> <p><i>K. Torlegard</i> (S): ISP Commission V Report 1976-1980, IP</p> <p><i>M. Carbonnel</i> (F): Comité International de Photogrammétrie Architecturale (CIPA). Compte rendu d'activité pour la période 1976-1980, IP</p> <p><i>K. Atkinson</i> (GB): A bibliography of non-topographic photogrammetry (1976-1980), IP</p> <p><i>W. Wester-Ebbinghaus</i> (FRG): Numerische Verfahren für die Architekturphotogrammetrie, IP</p> <p><i>H. Foramitti</i> (A): Rural and Urban Sites in Seismic Areas, IP</p>
16.00–17.30	Hall 7	VII	<p>Main Topic: Spectral Signatures of Objects, WG9 Chairmen: <i>C.M. Girard</i>, France <i>M.E. Bauer</i>, USA</p> <p><i>E. Sanwald</i> et al. (FRG): The Dependence of the Spectral Signature of Sugar Beets on the Level of Observation and the Reflection Geometry</p> <p><i>E. Sanwald</i> (FRG): Laboratory Spectrophotometric Measurements and Biological Parameters</p> <p><i>H.-J. Boehnel, W. Fischer, G. Knoll</i> (FRG): Measurements in situ with Spectroradiometers</p> <p><i>P. Reichert</i> (FRG): Signature Measurements with an Airborne Multispectral Scanner</p> <p><i>G. Guyot, P. Malet, F. Baret</i> (F): Analyse des indicatrices de reflexion de l'orge et du blé: possibilités de la stéréoradiométrie</p> <p><i>A. Perrier, Ch. Goillot, P. Boissard, P. Valéry, P. Belluomo</i> (F): Signification du concept d'inertie thermique pour diverses surfaces naturelles; sols ou couvertures végétales</p>
16.00–17.30	Hall 8	VII	<p>Main Topic: Environmental Monitoring WG3 Chairman: <i>M. Juppenlatz</i>, Netherlands</p> <p><i>W.G. Collins, J. Nichol</i> (GB): A Remote Sensing Evaluation of Habitat Resources in a New Town Site</p> <p><i>V.F.L. Pollé</i> (NL): The Size of the Net Residential Area on Air Photos as Input for Population and Housing Estimates in Large Cities from the Developing Countries</p> <p><i>St. Sekliziotis</i> (GR): Urban Open Space and Socio-Economic Class</p> <p><i>W. Winter, M. Casimir</i> (FRG): Remote Sensing and Nomadism in Afghanistan</p>

Technical Tour TT1.12 ARISTO Graphic Systems, 9.00–12.00, 10.15–13.15, 13.30–16.30, 14.45–17.45
Opening of the Exhibitions, Foyer Exhibition Halls, 10.00

9.00–10.45	Hall 2	I	<p>Main Topic: Image Geometry, WG 2 Chairman: <i>H. Ziemann</i>, Canada</p> <p><i>H. Ziemann</i> (CDN), <i>D.C. Merchant</i> (USA): The Activities of the Working Group on Image Geometry between 1972 and 1980, IP</p> <p><i>W.P. Tayman</i> (USA): Calibration, Recommended Procedures, IP <i>T. Hirai, J. Kaneko</i> (J): Total System of Evaluating Aerial Survey Cameras of G.S.I.</p> <p><i>E. Mathieu</i> (CH): The Electronic Vertical Goniometer, a New Instrument for Geometric Calibration of Aerial Camera Lenses</p> <p><i>J. Hakkarainen</i> (SF): Progress of Optical Properties of an Aerial Lens Type</p> <p><i>J. Juhl</i> (DK): Camera Calibration North Greenland</p> <p><i>L. Mauelshagen</i> (FRG): Simultane Bestimmung von Verzeichnungsparametern für verschiedene Kammern durch Bündelausgleichung</p> <p><i>H. Ziemann, P. Loosberg, J.R. Pekelsky</i> (CDN): KC Technology and Possible Applications in Photogrammetry</p>	<p>HH3 Alster canal tour 14.00–16.00</p> <p>T2 Day excursion to "Altes Land" 9.30–16.30</p> <p>SP5 Exhibitor's reception 18.00–midnight</p>
9.00–10.30	Hall 4	VI	<p>Main Topic: Information Dissemination Chairman: <i>A. Linsenbarth</i>, Poland</p> <p><i>Z. Sitek</i> (PL): Report of Commission VI</p> <p><i>J.H. ten Haken</i> (NL): Automated Storage and Retrieval Systems for Photogrammetry and Remote Sensing, IP</p> <p><i>K.M. Clayton</i> (GB): Geo Abstracts Part G on line, IP</p> <p>Panel Discussion: Computerization of Bibliography for Photogrammetry and Remote Sensing Moderator: <i>A. Linsenbarth</i> (PL) Panelists: <i>K. Clayton</i> (GB) <i>L. Homorodi</i> (H) <i>J.A. ten Haken</i> (NL) <i>J.T. v.d. Veer</i> (NL)</p>	
9.00–10.30	Hall 8	VII	<p>Main Topic: Methodology of Photointerpretation Chairman: <i>G. Hildebrandt</i>, Fed.Rep.Germany</p> <p><i>G.M. Lechi, G. Zani, E. Zilioli</i> (I): Image Interpretation as a Cultural Factor</p> <p><i>L. Daels, L.M. Antrop</i> (B): Ideographic Image Analysis as a Base for a New Visual Interpretation of Documents Derived from Remote Sensing</p> <p><i>E. Amadesi, G. Vianello</i> (I): Connection between Remote Sensing and Data-Bank for the Land Thematic Mapping</p> <p><i>S.O. Ihemadu</i> (Nigeria): The Regional Centre for Training in Aerial Surveys, Ile-Ife, Nigeria (under the Auspices of the United Nations Economic Commission for Africa)</p> <p><i>J. Bernhard, H. Schmidt-Falkenberg</i> (FRG): Die Arbeiten der Kommission E der OEEPE</p>	
11.00–12.30	Hall 2	III	<p>Main Topic: Methods and Accuracy of Aerial Triangulation Chairman: <i>F. Ackermann</i>, Fed.Re.Germany</p> <p><i>I.T. Antipov</i> (SU): On the Development in the Field of ISP Commission III during 1976-1980 (the Commission III President's Report)</p> <p><i>Ch. de Vegt, H. Ebner</i> (FRG): Large Block Adjustment Projects in Photographic Astrometry</p>	

			<p><i>J.J. Talts</i> (S): Research on Aerial Triangulation in Commission A of OEEPE</p> <p><i>A. Grün</i> (FRG): Internal Reliability Models for Aerial Bundle Systems</p> <p><i>M.M. Leupin, I.H. Hausmann</i> (CDN): An Extended Approach for Photogrammetric Point Determination in Geodetic Nets</p> <p><i>M. Molenaar</i> (NL): S-transformations and Criterion Matrices in Photogrammetry</p>
11.00–12.30	Hall 4	V	<p>Main Topic: Dissemination of Information Chairman: <i>J. Badekas</i>, Greece</p> <p><i>J. Badekas</i> et al. (GR): Low Altitude Aerial Photography, IP</p> <p><i>G. Lubowsky, P. Waldhäusl</i> (A): Ballonphotogrammetrie</p> <p><i>K. Kimata</i> (J): The Rope-way Camera System for Archaeological Sites</p> <p><i>C. Sena</i> (I): Picture Operations with Helicopter in the Survey of an Arachaeological Centre</p> <p><i>W. Wester-Ebbinghaus</i> (FRG): Fernlenkbildflug mit Modellhub-schrauber</p>
11.00–12.30	Hall 7	VII	<p>Main Topic: Environmental Monitoring, WG3 Chairman: <i>S. Schneider</i>, Fed.Rep.Germany</p> <p><i>M. Domokos</i> (H): Industrielle Umweltuntersuchung nach einem mit photogrammetrischen und Fernerkundungsmethoden kombinierten Verfahren</p> <p><i>J. Nichol, W.G. Collins</i> (GB): Ecological Monitoring of Balancing Lakes by Multispectral Remote Sensing</p> <p><i>M. Sartori</i> (A): Technische Verbesserung der Fernerkundungs-Interpretation bei Gewässeruntersuchungen</p> <p><i>W. Hassenpflug</i> (FRG): Die Luftbilddokumentation zur Auswirkung extremer Witterungsverhältnisse in der Heckenlandschaft</p> <p><i>Th. H. Lackie, Ch. P. Hwang, W.B. McCoy</i> (CDN): Water Pollution Surveillance</p>
11.00–12.30	Hall 8	VII	<p>Main Topic: Spectral Signatures of Objects, WG9 Chairmen: <i>E. Sanwald</i>, Fed.Rep.Germany <i>G. Guyot</i>, France</p> <p><i>B.F. Robinson, M.E. Bauer, D.P. DeWitt, L.F. Silva, V.C. Vanderbilt</i> (USA): A Multiband Radiometer and Data Acquisition System for Remote Sensing Field Research</p> <p><i>V.C. Vanderbilt, B.F. Robinson, L.L. Biehl, M.E. Bauer, A.S. Vanderbilt</i> (USA): Simulated Response of a Multispectral Line Scanner over Wheat as a function of Wavelength and View/Illumination Directions</p> <p><i>P. Malet, J.C. Gurnade, G. Guyot, M. Huet</i> (F): Changement de structure d'un couvert de blé, liés a la phénologie et la croissance; Conséquences sur la réflectance</p> <p><i>P. Malet, G. Guyot, J.C. Gurnade, F. Baret</i> (F): Interprétation de l'évolution de la réflectance d'un couvert de blé durant de phase de maturation: Liaison avec l'état physiologique</p> <p><i>A. Sieber</i> (FRG): Signaturen von landwirtschaftlichen Nutzpflanzen im Radarrückstreusignal</p>
14.00–15.30	Hall 4	V/VI	<p>Main Topic: Computerization of Bibliography for Photogrammetry and Remote Sensing Chairmen: <i>Z. Sitek</i>, Poland <i>J. Badekas</i>, Greece</p> <p><i>A. Linsenbarth</i> (PL): Methods of Information Dissemination for Photogrammetry and Remote Sensing</p> <p><i>J. Henninger, G. Hildebrandt</i> (FRG): Bibliography of Publications on Damage Assessment in Forestry and Agriculture with Remote Sensing Techniques</p>

			<i>A. Linsenbarth, I. Majcher</i> (PL): Bibliography and Information Dissemination
14.00–15.30		II,III, IV, V, VII	POSTER SESSIONS (see extra timetable page 190)
14.00–16.00	Hall 12		OEEPE Commission A Chairman: <i>J. Talts</i> (S)
14.00–16.00	Hall 9		Meeting Sustaining Members and Exhibitors
16.00–17.30	Hall 2	VII	Main Topic: Vegetation Damage, WG2 Chairmen: <i>C.M. Girard</i> , France <i>P.A. Murtha</i> , Canada <i>C.M. Girard</i> (F): Télédétection des dommages causés à la végétation: Rapport sur les recherches en agriculture <i>P.A. Murtha</i> (CDN): Report of the Forestry Section: Working Group on Vegetation Damage <i>E. Sanwald, P. Reichert</i> (FRG): State-of-the-art in Crop Stress Detection by the Use of Remote Sensing Techniques – A Critical Review <i>J. Riom</i> (F): Réponse spectrale de Forêts de pins défoliés: Importance de l'environnement de l'arbre <i>W.M. Ciesla</i> (USA): Putting Remote Sensing Technology to Work in Forest Damage Evaluation
16.00–17.30	Hall 4	IV	Main Topic: Digital Map Compilation and Cartographic Treatment of Digital Data, WG1 Integrated Resource Mapping, WG7 Chairmen: <i>J.R. Gauthier</i> , Canada <i>P. Asmoro</i> , RI <i>J.R. Gauthier</i> (CDN): Accuracy and Time Comparison of Digital Maps – an International Test <i>F.S. Kröll</i> (FRG): Databank and Information Systems for Digital Topographic Photogrammetry <i>H. Ebner</i> (FRG): A Minicomputer Program Package for Height Interpolation by Finite Elements <i>P. Asmoro</i> (RI): Transmigration Program <i>F. de Carvalho</i> (BR): The Dynamization of Cartography-DINCART in Brazil <i>C.S. Gonzales</i> (MEX): Topographic Cartographic Systems for Non-Developed Countries <i>E. Derenyi</i> (CDN): Non-Technical Problems in the Evolution of a Renewable Resource Information System
16.00–17.30	Hall 8	V/VI	Main Topic: Dissemination of Information. Computer Programs Chairman: <i>J. Badekas</i> , Greece <i>W. Faig</i> (CDN): Precision Photogrammetry for Industrial Purposes <i>Hakim, W. Faig</i> (CDN): The General Bundle Adjustment Triangulation (GEBAT) System. Theory and Applications <i>H. Kager</i> (A): Das interaktive Programmsystem ORIENT im Einsatz <i>A. Perelmutter, Papu</i> (ISR): Free Network Analysis of Storage Tank Calibration <i>G. Barthel, F. Voss</i> (FRG): Zehn Jahre Erfahrung mit UMK/1318 <i>C. Cundari</i> (I): La stéréophotogrammétrie pour la connaissance de la environnement urbaines

Technical Tours TT1.02 Hamburger Flugzeugbau (MBB), TT1.04 GKSS Research Centre (Geesthacht)—
environmental control, 9.00–15.00, TT1.17 Scharnebeck shiplift on the Elbe Canal, 9.00–15.00

9.00–10.30	Hall 2	VII	<p>Main Topic: Environmental Monitoring, WG3 Chairman: <i>S. Schneider</i>, Fed.Rep.Germany</p> <p><i>S. Schneider</i> (FRG): Untersuchung zur Anwendung von Landsat-daten für die Regionalplanung</p> <p><i>O. Kölbl, H. Trachsler</i> (CH): Regional Land Use Survey Based on Point Sampling on Aerial Photographs</p> <p><i>J.R. Schott</i> (USA): Remote Sensing of Thermal Loadings on Aquatic Systems</p> <p><i>S.-A. Ljungberg</i> (S): Use of Aerial Thermography in Urban Areas. Development of a Method for Collection of Data for Energy, Climate and Building Planning</p>	<p>HH1 Sightseeing tour of the city and port 9.00–12.00</p> <p>T3 Day excursion to "Holstein's Switzerland" 9.00–18.00</p> <p>SP6 Hamburg — past and present 18.00–19.00</p>
9.00–10.30	Hall 4	II	<p>Main Topic: A System for Evaluation of Analytical Plotters Chairman: <i>B. Makarovic</i> (NL)</p> <p><i>B. Makarovic</i> (NL): Rapport du GT1: A System for Evaluation of Analytical Plotters</p> <p><i>M.L. McKenzie</i> (USA), <i>B. Makarovic</i> (NL): Analytical Plotter Evaluation Guide, IP</p> <p><i>Z. Jaksic</i> (CDN): Evaluation of Functional and Structural Characteristics of Analytical Plotters, IP</p> <p><i>L.W. Fritz</i> (USA): Testing Procedures for Analytical Plotters, IP</p> <p><i>B.L. Dubuisson</i> (F): Economie comparée et expansion analytique, IP</p> <p><i>D. Hobbie</i> (FRG): Testing Procedures for the C-100 Planicomp</p> <p><i>H. Rüdener</i> (FRG): An Analytical Plotter Programme for Objective On-Line Determination of Point Density in Digital Terrain Models</p>	
9.00–10.30	Hall 7	I	<p>Special meeting: Specifications for Air Photography Chairman: <i>F.L.J.H. Corten</i>, Netherlands</p> <p>Panel Discussion: Moderator: <i>B. Makarovic</i> (NL) Panelists: <i>Z. Jaksic</i> (CDN) <i>L. Fritz</i> (USA) <i>R. Forrest</i> (AUS) <i>Sherman Wu</i> (USA) <i>W. Lichtner</i> (FRG) <i>G. Capanni</i> (I)</p>	
11.00–12.30	Hall 2	IV	<p>Main Topic: Mapping from Space-borne Photography and Nonphotographic Imaging Systems, WG4 Chairman: <i>A.P. Colvocoresses</i>, USA</p> <p><i>A.P. Colvocoresses</i> (USA): Status and Future of Electro-Optical Mapping Systems in Space</p> <p><i>G. Konecny</i> (FRG): Earth Orbiting Camera Systems</p> <p><i>R.M. Batson</i> (USA): Status and Future of Extraterrestrial Mapping Programs</p> <p><i>E.A. Fleming</i> (CDN): Determination of the Geographic Position of Isolated Islands Using the Digital Image Correction System for Landsat MSS Imaging</p> <p><i>A. Baudoin</i> (F): Utilisation des images SPOT pour la cartographie topographique des pays industriels et des pays neufs</p> <p><i>S. Murai</i> (J): Three Dimensional Representation for LANDSAT MSS Data</p>	

11.00–12.30	Hall 4	V	<p>Main Topic: Analytics of Close Range Photogrammetry Chairman: <i>S. Karara, USA</i></p> <p><i>H.M. Karara (USA)</i>: Report on the Activities of ISP WG V-1, IP</p> <p><i>H.M. Karara (USA), W. Faig (CDN)</i>: An Exposé on Photographic Data Acquisition Systems in Close- Range Photogrammetry, IP</p> <p><i>A. Grün (USA)</i>: Precision and Reliability Aspects in Close-range Photogrammetry, IP</p> <p><i>I. Hadem (N)</i>: Bundle Adjustment in Industrial Photogrammetry</p> <p><i>P. Hottier (F)</i>: Couple méthode des résidus conjugués et équation d'observation "quasidéterminée"</p>
11.00–12.30	Hall 7	II	<p>Main Topic: A System for Evaluation of Analytical Plotters</p> <p>Panel Discussion: Moderator: <i>B. Makarovic (NL)</i></p> <p>Discussion des rapports présentés et possibilités futures</p> <p>Panelists: <i>D. Hobbie (FRG)</i> <i>H. Rüdener (FRG)</i> <i>W. Lichtner (FRG)</i> <i>Ch. Vigneron (F)</i> <i>G. Capanni (I)</i></p>
11.00–12.30	Hall 8	VII	<p>Main Topic: Environmental Monitoring, WG3 Chairman: <i>H. Trachsler, Switzerland</i></p> <p><i>V. Romano, P. Triglia (I)</i>: Méthode Analogique-Digitale pour la Détermination du contenu agricole d'une Zone d'Etude en Province de Ravenne (Italie) à Travers des Données MSS Landsat</p> <p><i>C. Emmot, W.G. Collins (GB)</i>: Air Photo Interpretation for the Measurement of Changes in Urban Land Use</p> <p><i>R. Galetto, P.P. Rigamonti (I)</i>: Remote Sensing Data for Regional Planning in Italy</p> <p><i>P. Collier, W.G. Collins (GB)</i>: The Classification and Inter- pretation of Land Use in the Humid Tropics: An Air Photo Study</p> <p><i>H. Lappaenen (SF)</i>: Aerial Data in Forecasting of Urban Development and Traffic in Tripoli</p>
14.00–15.30	Hall 6		GENERAL ASSEMBLY
14.00–15.30		I, II, III, IV, V, VII	Poster Sessions (see extra timetable page 190)
15.00–16.00	Exhibition Hall 3		Flight Demonstration with a Photohelicopter
16.00–17.30	Hall 2	I	<p>Main Topic: Image Quality with Environmental Factors, WG3 Chairman: <i>Mrs. C. Norton, USA</i></p> <p><i>C.L. Norton (USA)</i>: Report of Working Group I/3, Image Properties Environmental Factors, IP</p> <p><i>H.-K. Meier (FRG)</i>: Über den Gegenwärtigen Stand Aero- photogrammetrischer Aufnahmesysteme</p> <p><i>G.E. Bormann, E. Mathieu (CH)</i>: Experimental Results of Lens Calibration at Different Temperatures</p> <p><i>G.A. Wood (USA)</i>: Environmental Factors in the Design of the Large Format Camera, IP</p> <p><i>J. Hakkarainen (SF)</i>: On the Influence of Some Flight Factors on Image Quality</p> <p><i>S.C. Haley, E. Gliatti (USA)</i>: Evaluation of the Perfor- mance of Sensor Systems by Simulation</p> <p><i>Y. Poletayev (USSR)</i>: Factors Determining Air Survey Quality</p>

16.00-17.30	Hall 4	III	<p>Main Topic: Compensation of Systematic Errors, WG3 Chairman: <i>J. Pietschner</i>, German Democratic Republic</p> <p><i>F. Ackermann</i> (FRG): Blockadjustment with Additional Parameters, IP</p> <p><i>E. Kilpelä</i> (SF): Compensation of Systematic Errors of Image and Model Coordinates (Report of Working Group III/3)</p> <p><i>J. Juhl, O. Brande-Lavridsen</i> (DK): The AUC Selfcalibrating Block-Adjustment Method and its Results from Jämijärvi Testfield</p> <p><i>G. Kupfer, L. Mauelshagen</i> (FRG): Correlation and Standard Errors in Bundle Block Adjustment Including Additional Parameters</p> <p><i>G. Inghilleri</i> (I): Experiments of Post-Calibration in the Block adjustment</p>
16.00-17.30	Hall 7	VII	<p>Main Topic: Vegetation Damage, WG2 Chairmen: <i>P.A. Murtha</i>, Canada <i>C.M. Girard</i>, France</p> <p><i>P. Boissard, R. Perrin, B. Andrieu, P. Valéry</i> (F): Exploitation numérique du film infrarouge couleur pour l'étude de la maladie de l'écorce du hetre</p> <p><i>R. Dillman, Ph. Weber, B. White</i> (USA): Capabilities of High Altitude Panoramic Photography for Mountain Pine Beetle Damage Surveys</p> <p><i>H.U. Scherrer, H. Flühler, F. Mahrer</i> (CH): A Sampling Technique to Assess Site, Stand, and Site Characteristics of Pine Forests on CIR Aerial Photographs</p> <p><i>G. Guyot, J. Riom</i> (F): Détection de pins malades dans l'infrarouge thermique (Bande 8-14 μ)</p> <p><i>S. Takahata, K. Miyama</i> (J): Studies on the Plant Damage Caused by the Mt. Usu Eruption Using Remote Sensing</p>
16.00-17.30	Hall 8	VII	<p>Environmental Monitoring, WG3 Chairman: <i>H. Hoefner</i>, Switzerland</p> <p><i>W. Hassenpflug</i> (FRG): Erprobung von Fernerkundungsverfahren (Satellitenbilder) bei der Umweltüberwachung sowie zur Unterstützung von Biotopkartierungen</p> <p><i>W. Kirchhof, G. Lützow</i> (FRG): The Potential Use of Remotely Sensed Data for Regional and Zonal Planning</p> <p><i>R. Bachhuber, C. Franke, W. Kirchhof</i> (FRG): Untersuchungen zur Nutzung multispektraler Fernerkundungsbilddaten für landschaftsökologische Problemstellungen</p> <p><i>L.E. Pla</i> (Venezuela): The Desertification: Generating Hypothesis from Aerial Photographs</p>
16.00-17.00	Hall 13/ 14	V	<p>Main Topic: Analytics of Close-Range and Terrestrial Photogrammetry Chairman: <i>H.M. Karara</i>, USA</p> <p><i>S.A. Veress</i> (USA): Contemporary Analytical Solutions in Terrestrial Photogrammetry, IP</p> <p><i>V. Kratky</i> (CDN): From On-line to Real-Time Solutions in Close-Range Photogrammetry, IP</p> <p><i>C.S. Fraser</i> (NZ): Accuracy Aspects of Multiple Focal Setting Self-Calibration Applied to Non-Metric Cameras</p> <p><i>H. Salmenperä</i> (SF): A Procedure for Close Range Camera Calibration</p>
18.00-19.00	Hall 4	IV	<p>Main Topic: Extraterritorial Mapping-Programs Chairman: <i>R. Batson</i>, USA</p>

Technical Tours TT1.06 Hamburg Board of Works and Surveying Office, 9.00–12.30, TT1.09 The surveying ship 'METEOR', 9.00–11.30, TT1.13 Deutsches Elektronen-Synchrotron (DESY), 10.00–15.00

JOINT EVENTS FOR CONGRESS PARTICIPANTS AND MEMBERS OF INTERNATIONAL AND NATIONAL ASSOCIATED SOCIETIES

9.00–10.30	Hall 2	II	<p>Main Topic: Automation in Photogrammetry, WG5 Chairman: <i>Z. Jaksic</i>, Canada</p> <p><i>J.B. Case</i> (USA): Automation in Photogrammetry, IP</p> <p><i>L.E. Starr</i> (USA): Implementation of Automated Photogrammetric Systems in an Analog Mapping Organization, IP</p> <p><i>M.M. Allam</i> (CDN): Recent Trends in the Development of Automated Photogrammetric Instruments, IP</p> <p><i>F.A. Scarano</i> (USA): The Epipolar Scanner Stereoplotter in an Integrated Photogrammetric Processing Environment, IP</p> <p><i>G. Inghilleri</i> (I): Analysis and Comparison of the Working Principles of the Digital Geometry Stereoplotters (DGS), IP</p> <p><i>B. Makarovic</i> (NL): Automatic Off-line Generation of Digital Terrain Models</p> <p>Panel Discussion: Needs and Feasibility for Automation of Photogrammetric Processes</p> <p>Moderator: <i>Z. Jaksic</i> (CDN) Panelists: <i>M.M. Allam</i> (CDN) <i>J.B. Case</i> (USA) <i>U.V. Helava</i> (USA) <i>G. Hobrough</i> (CDN) <i>B. Makarovic</i> (NL) <i>C.C. Slama</i> (USA)</p>	<p>HH4 Hamburger Kunsthalle (Art Gallery) 14.00–16.00</p> <p>HT1 Blankenese, incl. visits to Barlach House and Jenisch House 10.00–15.00</p> <p>T4 Visit to riding stables in the Lüneburg Heath 8.00–16.00</p> <p>SP7 Gala evening 19.00, CHH</p>
9.00–10.30	Hall 4	V	<p>Main Topic: Industrial Photogrammetry, WG5 Chairman: <i>K. Linkwitz</i>, Fed.Rep.Germany</p> <p><i>K. Linkwitz</i> (FRG): Working Group V/5 Report, IP</p> <p><i>M. Dutschke</i> (FRG): Aufgabe und Verfahren der Fertigungstechnik, IP</p> <p><i>H. Bopp/H. Krauss</i> (FRG): Potentials of Photogrammetry, IP</p> <p><i>T. Oshima</i> (J): Recent Development of Industrial Photogrammetry in Japan</p> <p><i>W. Weise</i> (FRG): Deformation Measurement by High-Frequency Photography During Crash Tests of Steel Concrete Plates</p>	
9.00–10.30	Hall 8	VII	<p>Main Topic: Vegetation Damage, WG2 Chairmen: <i>P.A. Murtha</i>, Canada <i>C.M. Girard</i>, France</p> <p><i>P.A. Murtha</i> (CDN): Modelling Tree Damage-Type Patterns for Photo Interpretation of SO₂ injury</p> <p><i>K. Zirm</i> (A): Erfahrungen bei der Klassifikation geschädigter Vegetation mit Hilfe von multispektralen Scannerbildern</p> <p><i>H. Kenneweg</i> (FRG): Luftbildinterpretation von Straßenbäumen in westdeutschen Städten – Technische und wirtschaftliche Voraussetzungen für eine operationelle Anwendung</p>	
11.00–12.30	Hall 2	IV	<p>Main Topics: Digital Map Compilation and Cartographic Treatment of Digital Data, WG1 Large Scale Integrated Mapping for Urban and Rural Planning Engineering, WG3 Chairman: <i>J.M. Zarzycki</i>, Canada</p> <p><i>R. Boyle</i> (CDN): The Present Status and Future of Scanning Methods for Digitization, Output Drafting and Interactive Display and Edit of Cartographic Data</p>	

			<p><i>J. Leatherdale</i> (GB): Digital Map Production</p> <p><i>W. Staufenbiel</i> (FRG): Das topographische Datenbanksystem TOPSY</p> <p><i>J.G. Linders</i> (CDN): Geo Reference Data Base Design</p> <p><i>A. Berger</i> (FRG): Klassifikation von Verkehrsdaten (Straßen)</p> <p><i>W. Schwenk</i> (FRG): Kartentheoretische Grundlagen bei der Strukturierung digitaler Kartenmodelle</p> <p><i>K. Plücker</i> (FRG): Klassifikation von Kartengegenständen</p>
11.00–12.30	Hall 4	I	<p>Main Topic: Sensor Orientation and Navigation, WG4 Chairman: <i>F.L.J. Corten</i>, Netherlands</p> <p><i>F.L.J. Corten</i> (NL): Sensor Orientation and Navigation, IP</p> <p><i>S. Decamp</i> (USA): An Inertial Navigation System (NS) Designed as Photogrammetric Integrated Control System (PICS)</p> <p><i>R. Brossier</i> (F): Communication sur le système APR-Laser de l'IGN</p> <p><i>R. Audi et al.</i> (BR): Orientation of Stereomodels Obtained from Aircraft Equipped with Inertial Navigation System (INS)</p> <p><i>R. Audi</i> (BR): Practical Results Obtained by Means of the Inertial System PICS</p> <p><i>L. Scott</i> (GB): Specification for Vertical air Photography</p> <p>Panel Discussion: Sensor Orientation Moderator: <i>F. Corten</i> (NL) Panelists: <i>R. Lorenz</i> (NL) <i>S. Decamp</i> (USA) <i>R. Brossier</i> (F) <i>R. Audi</i> (BR)</p>
11.00–12.30	Hall 8	VII	<p>Main Topic: Natural Land Resources, WG1 Chairman: <i>H. Kenneweg</i>, Fed.Rep.Germany</p> <p><i>I. Nakajima, Y. Mukai, S. Takeuchi, S. Tanaka</i> (J): Application of Landsat Data for the Management of Forest Resources</p> <p><i>C.M.R. Carneiro</i> (BR): The Brazilian Forest Cover Monitoring Program</p> <p><i>J.J. Talts</i> (S): Landsat Data and Topographic Maps for a Forest Inventory</p> <p><i>F. Beonio-Brocchieri</i> (i): Poplar Groves Acreage Estimation from Landsat Satellite Data</p> <p><i>H. Ødegaard</i> (N): Mapping Polar Vegetation at Spitsbergen by Use of Landsat</p>
15.00	Hall 3		Flight Demonstration with a Photohelicopter
14.00–15.30	Hall 6		GENERAL ASSEMBLY
14.00–15.30	Hall 8	VII	<p>Main Topic: Natural Land Resources, WG1 Chairman: <i>J. Ullmann</i>, USA</p> <p><i>G. Sicco Smit</i> (NL): Use of Landsat Imagery for Forest Management Mapping; a Case Study of the "Kobernausser Wald" in Austria</p> <p><i>F. Mohrer</i> (CH): Application of Aerial Photography for the Swiss National Forest Inventory</p> <p><i>A. Akca</i> (FRG): Holzvorratsermittlung durch digitale Luftbildauswertung</p>
14.00–15.30		I, II, III IV, V	POSTER SESSIONS (see extra timetable page 190)
14.00–15.30	Hall 4		Deutscher Verein für Vermessungswesen (DVW), Landesverein Hamburg/Schleswig-Holstein Mitgliederversammlung

14.00–15.30	Hall 7		International Cartographic Association Informal Meeting
16.00–17.00	Hall 7	I	Panel Discussion: Image Quality and Image Geometry – Future Prospect 1980–1984 Moderator: <i>R. Welch (USA)</i> Panelists: <i>H. Ziemann (CDN)</i> <i>C. Norton (USA)</i> <i>W.M. Strome (CDN)</i> <i>A.D. Colvocoresses (USA)</i> <i>F.J. Worton (GB)</i> <i>J. Hakkarainen (SF)</i> <i>J. Sievers (FRG)</i> <i>J. Trinder (AUS)</i>
16.00–17.30	Hall 2	VII	Main Topic: Natural Land Resources, WG1 Chairman: <i>F.J. Ullmann, USA</i> <i>E.E. Derenyi (CDN)</i> : Role of Remote Sensing in Regional Farm Land Inventory Programs <i>J. Cihlar, C. Goodfellow, T. Alfoldi (CDN)</i> : Remote Sensing Technology Transfer to Operational Use in Canadian Forestry <i>G. Fraysse, P. Montellanico (I)</i> : A Methodology for a Large Scale Olive Trees Inventory <i>W.L. Andronikow (SU)</i> : Interpretation der Bodendecke nach spektralzonalen kosmischen Abbildungen <i>V.I. Sukhikh (SU)</i> : Forest Remote Sensing System
16.00–17.30	Hall 4	III	Main Topic: Geometry of Remote Sensing, WG1 Chairman: <i>G. Konecny, Fed.Rep.Germany</i> <i>J.M. Anderson, E.M. Mikhail (USA)</i> : Metric Aspects of Remote Sensing Data (Report of Working Group III/1) <i>F. Leberl (A), E. Clerici (AUS)</i> : Current Status of Metric Reduction of Active Sensor Imagery, IP <i>E.M. Mikhail, J.C. McClone (USA)</i> : Current Status of Metric Reduction of Passive Scanner Data, IP <i>B. Cabrières, P. Keller, M. Rayssiquier (F)</i> : Methodes de correction géométrique des images fournies par le système SPOT <i>S.S.C. Wu (USA)</i> : Topographic Mapping with Side-100-King Radar Imagery
16.00–17.30	Hall 8		Deutsche Gesellschaft für Kartographie (DGfK) <i>G. Hake (FRG)</i> : Die Herstellung von Karten der Gezeiten- küste durch photogrammetrische Verfahren <i>H. Pape (FRG)</i> : Karten über Luftverschmutzung am Beispiel Dortmunds <i>Böhme (FRG)</i> : Ausbildungsfragen
17.00–18.00	Hall 7	I	Special Meeting: Sensor Orientation and Navigation Chairman: <i>F.L.J.H. Corten, Netherlands, WG4</i>

SATURDAY, JULY 19

SAMEDI, 19 JUILLET

SAMSTAG, 19. JULI

Technical Tour TT1.01 Exhibition of mapping aircraft, 9.00–12.00 and 14.30–17.30

EARSel (European Association of Remote Sensing Laboratories) Hall 12, 14.00

First Meeting of EARSel Working Group No. 10 on Space Cartography (Convener: G. Konecny)

SUNDAY, JULY 20

DIMANCHE, 20 JUILLET

SONNTAG, 20. JULI

Technical Tour TT1.14 Planetarium and the DHI automatic zenith camera, 13.30–16.00

Technical Tours TT1.03 Lufthansa workshop, Hamburg airport, 8.30–13.30, TT1.10 Nautical and hydrographic services (DHI), 9.00–11.00 and 13.00–15.00

9.00–10.30	Hall 2	VII	<p>Main Topic: Remote Sensing in Engineering Projects and Industrial Processes, WG5 Chairman: <i>H. Rib</i>, USA</p> <p><i>W.T. Baker</i> (USA): Photologging: A Close Range Photogrammetry Tool for Highway Engineers</p> <p><i>P.K. Pleitner</i> (USA): Applications of Airborne Thermal Infrared Scanners to Engineering Problems</p> <p><i>T. Oshima</i> (J): Environmental Studies by Pattern Classification for Evaluating the Effect of Civil Engineering Projects Under Construction</p>	<p>T5 Day trip to Lübeck and Travemünde 9.00–17.00</p> <p>HT2 Afternoon trip to the Lüneburg Heath 13.00–18.00</p>
9.00–10.30	Hall 4	III	<p>Main Topic: Digital Image Processing, WG2 Chairman: <i>F. Leberl</i>, Austria</p> <p><i>N. Mulder</i> (NL): Pre-Processing of Digital Images, Filtering and Image Coding, IP</p> <p><i>M. Ehlers, B. Wrobel</i> (FRG): Digital Correlation of Remote Sensing Imagery from Tidal Lands</p> <p><i>W. Mehl</i> (I): Automatic Noise Removal and Contour Mapping on Low Gradient Imagery</p> <p><i>H.P. Bähr</i> (FRG): Analog Versus Digital Image Processing of Photogrammetric Imagery</p> <p><i>B. Bargerl</i> (FRG): Automatische Klassifikation durch Textur- und Formmerkmale in Multispektraldaten für die Fernerkundung</p> <p><i>E.L. Amidon</i> (USA): SCANIT: A Minicomputer Processing System to Help Transform Raster-Scanned Map Lines into Polygon Boundaries</p>	
11.00–12.30	Hall 2	V	<p>Main Topic: Cost Effectiveness, WG2 Chairman: <i>J. Wapinski</i>, Poland</p> <p><i>J. Wapinski, A. Bujakiewicz</i> (PL): The Economical and Technical Aspects of Non-Topographic Photogrammetry (WG V-2 report)</p> <p><i>W. Cheffins</i> (GB): Non-topographic Photogrammetry in a Commercial Mapping Company, IP</p> <p><i>Z. Sitek</i> (PL): Control Principles of Architectural Documentation Prepared by Photogrammetric Methods</p> <p><i>R. Olsson, R. Larsson</i> (S): Precision of Geodesy Versus Photogrammetry in Building Control</p>	
11.00–12.30	Hall 4	IV	<p>Main Topic: Orthophotography and Photomapping, WG5 Chairman: <i>D. Glendinning</i>, Australia</p> <p><i>D. Glendinning</i> (AUS): Orthophotography and Photomapping (Report WG5)</p> <p><i>K. Kraus</i> (A): A Data Base Towards the Digitally Controlled Production of Orthophotos</p>	
11.00–12.30	Hall 7	VII	<p>Main Topic: Interpretation of Radar Imagery, WG7 Chairmen: <i>P. Fagundes</i>, Brazil <i>C.M.R. Carneiro</i>, Brazil</p> <p><i>St. Jackson</i> (USA): Geologic Interpretation from Seasat — a Radar Imagery of Part of the Atlantic Coastal Plain and Appalachian Mountains, USA</p> <p><i>F. Voss</i> (FRG): Natural Resources Inventory of East Kalimantan/Indonesia by Side Looking Airborne Radar Surveys</p> <p><i>C. King</i> (F): Contribution à l'étude des sols nus par microondes</p>	

14.00–15.30	Hall 2	VII	<p><i>J. Nithack</i> (FRG): Visuelle Interpretation von Radarbildern</p> <p><i>F.M. Henderson</i> (USA): Extracting Urban Data from SAR Imagery: The merit of image Enhancements and Density Slicing</p> <p>Main Topic: Interpretation of Radar Imagery, WG7 Chairman: <i>P. Fagundes</i>, Brazil</p> <p><i>P.H.A. Martin-Kaye</i> (GB): Regional Interpretation of Radar Imagery</p> <p><i>G. Sicco Smit</i> (NL) SLAR Mosaic Interpretation for Forestry Purposes, a Case Study of the Interpretation of a Star Mosaic of Nigeria without Additional Information</p> <p><i>S. Pala, R. Mussakowski, E. Wedler</i> (CDN): Seasat-SLAR Data Evaluation for Structural and Surficial Geology</p>
14.00–15.30	Hall 4	II	<p>Main Topic: Processing of Remote Sensing Data Chairman: <i>J.C. Cazaux</i>, France</p> <p><i>J.V. Taranik</i> (USA): Instruments for Processing and Analysis of Remotely Sensed Data (Report of WG 4)</p> <p><i>F. Quiel, J. Wiesel</i> (FRG): Großrechner oder Minicomputer zur Auswertung von Fernerkundungsdaten?</p> <p><i>J.L. Hollette</i> (F): Processur Propal II pour les prétraitements de données de télédétection</p> <p>Panel Discussion: Orthophotos Moderator: <i>D. Glendinning</i> (USA) Panelists: <i>G. Ducher</i> (F) <i>J. Karalus</i> (GB) <i>R. Mullen</i> (USA) <i>S. Murai</i> (J) <i>M. Erez</i> (ISR)</p>
14.00–15.30	Hall 8	V	<p>Main Topic: Cost Effectiveness, WG2 Chairman: <i>J. Wapinski</i>, Poland</p> <p><i>L. Homorodi</i> (H): Photogrammetrische Arbeiten für nicht-topographische Zwecke in Ungarn</p> <p><i>S. Simonkovics</i> (H): Die Fragen der Kostenaufwandswirksamkeit im Anwendungsgebiet der Nahbildphotogrammetrie</p> <p><i>G. Hadjiev</i> (BG): La Photogrammétrie Architecturale dans le domaine de la préservation des monuments historiques en république populaire de Bulgarie</p> <p><i>J. Gala et al.</i> (PL): Contribution of the Photogrammetry on the Restoration of the Ancient Architectural Monuments and Sites of the Old City Krakow</p> <p><i>M. Aytac et al.</i> (TR): Photogrammetrische Bestandsaufnahme einiger historischer Bauten in Istanbul</p> <p><i>R. Risager-Christensen</i> (DK): Observations of Displacements of a Bridge Loaded to Failure, using Analytical Photogrammetry</p>
16.00–17.30	Hall 2	I	<p>Main Topic: Space Sensing, WG5 Chairman: <i>R.B. McEwen</i>, USA</p> <p><i>R.B. McEwen</i> (USA): Review of Space Sensing 1976–1980, IP</p> <p><i>S. Murai</i> (J): MOS – 1 and LOS – 1 Projects in Japan</p> <p><i>E.H. Velten, G. Rausch</i> (FRG): Recent Investigations on European Remote Sensing Satellites and Earth Oriented Spacelab Missions</p> <p><i>B. Mollberg</i> (S): The Orbiter Camera Payload System and the Large Format Camera</p> <p>Panel Discussion: Moderator: <i>M. Courtois</i>, France</p>
19.00	Hall 13/ 14	I	<p>Special Meeting: What is New in Aerial Photography in Instrumentation? Chairman: <i>F.L.J.H. Corton</i>, Netherlands</p>

16.00–17.30	Hall 4	VI	<p>Main Topic: Terminology, Economic Aspects and History of Photogrammetry and Remote Sensing Chairman: <i>S.K. Ghosh</i>, Canada</p> <p><i>P.W. Wolf</i> (USA): Tri-lingual Glossary of Photogrammetry Terms, IP</p> <p><i>S.K. Ghosh</i> (CDN): General Report on Planning, Economy and Professional Aspects of Photogrammetry in the World, IP</p> <p><i>G.C. Agarwal</i> (IND): Concepts of Planning for Mapping in a Developing Country</p> <p><i>T.J. Blachut</i> (CDN): Photogrammetry – Historical Review of Methods and Instruments. Activity Report of ISP WG VI-2</p> <p><i>K.B. Atkinson</i> (GB): P.V. Thompson, 1880–1917, a pioneer of Photogrammetry</p>
16.00–17.30	Hall 7	VII	<p>Main Topic: Natural Land Resources, WG1 Chairman: <i>H.J. Boehnel</i>, Fed.Rep.Germany</p> <p><i>A.F.H. Goetz</i> (USA): Stereosat: A Global Digital Stereo Imaging Mission</p> <p><i>G. Saint, P. Hebert, C. Leprieur</i> (F): Cartographie de l'Evolution du Manteau Neigeux du Massif Central à l'aide des Images du Satellite "TIROS N"</p> <p><i>F.B. Henderson</i> (USA): International Geological and Geophysical Remote Sensing from Space</p> <p><i>K.S. Dueholm</i> (DK): Computer Supported Geological Photo-interpretation</p> <p><i>J.-P. Delpont</i> (F): Structure de distribution des données recueillies par le système SPOT; aide aux utilisateurs</p>
16.00–17.30	Hall 8	V/VII	<p>Main Topics: Industrial Photogrammetry, Remote Sensing in Engineering Projects and Industrial Processes Chairman: <i>K. Linkwitz</i>, Fed.Rep.Germany</p> <p><i>J. Gates</i> (GB): Non-conventional Measuring Techniques for Industry. Some Recently Developed Optical Measurement Techniques, IP</p> <p><i>Trunin et al.</i> (SU): Chosing Optimal Variants of Photogrammetric Survey when Solving the Problems of Rock Mechanics and Mine Surveying</p> <p><i>S. Veress</i> (USA): Photogrammetry for Dimensional Control of Bridges</p>

TUESDAY, JULY 22

MARDI, 22 JUILLET

DIENSTAG, 22. JULI

T6 Excursion to Hannover, 8.00–23.00

TT2 Technical tours in Hannover:

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| TT2.01 | University of Hanover, Institute for Photogrammetry and Surveying School of Topography and Cartography |
| TT2.02 | University of Hanover, Geodetical Institute, Institute for Theoretical Geodesy |
| TT2.03 | Federal Institute for Geoscience and Natural Resources |
| TT2.04 | NLVA Surveying Department |
| TT2.05 | Hanover City Surveying Department |
| TT2.06 | Hanover Land Registry |
| TT2.07 | Land consolidation in nearby recreation areas |

Home Hospitality coffee party in private homes (for accompanying persons only) 15.00 approx.

An evening's entertainment in the baroque gardens of Hanover-Herrenhausen

Technical Tours TT1.07 Town planning tour – traffic facilities, 9.00–12.00, TT1.11 Hamburg Technical College, Surveying Department, 14.30–17.30

9.00–10.30	Hall 2	V	<p>Main Topic: Non-Conventional Techniques, WG3 Chairman: <i>J.W.C. Gates</i>, Great Britain</p> <p><i>J.W.C. Gates</i> (GB): Application of Non-Conventional Imaging Systems, IP</p> <p><i>R.J. Pryputniewicz</i> (USA): State-of-the-Art on Hologrammetry and Related Fields, IP</p> <p><i>S.K. Ghosh</i> (CDN): Future Possibilities of Precision Mapping with Electron Microscopy, IP</p> <p><i>O. Jacoby</i> (DK): Photogrammetric Tracking of a Moving Particle in Running Water</p>	<p>HT3 Afternoon excursion to Lüneburg and "Kloster Lüne" (convent) 14.00–19.00</p> <p>HH2 Hamburg by night 21.00–1.00</p> <p>HH4 Hamburger Kunsthalle (Art Gallery)</p>
9.00–10.30	Hall 4	IV	<p>Main Topic: Large Scale Integrated Mapping for Urban and Rural Planning and Engineering Surveys, WG3 Chairman: <i>K.J. Lester</i> (ZA)</p> <p><i>B. Adolfson</i> (S): Photogrammetry and Field Surveying at the National Swedish Road Administration</p> <p><i>P.O. Fagerholm</i> (S): Low Cost Road Mapping for Road Management</p> <p><i>G.C. Agarwal</i> (IND): Cadastral Surveys in India</p> <p><i>G. Gros</i> (F): Les modèles numériques du sol, du sur-sol et du sous-sol-état et perspectives d'avenir</p> <p><i>P. Waldhäusl</i> (A): Ergebnisse des Versuchs Wien der OEEPE/C</p>	
9.00–10.30	Hall 7	VII	<p>Main Topic: Natural Land Resources, WG1 Chairmen: <i>J. Ullmann</i>, USA <i>M.C. Girard</i>, France</p> <p><i>M.H. Boubaker</i> (TN): Application de la télédétection à l'étude de l'occupation du sol requis par les aménagements hydrauliques en Tunisie</p> <p><i>M.C. Girard, J.P. Rogala</i> (F): Analyse de l'humidité des sols comme paramètre de l'environnement traitement informatique d'image satellite</p> <p><i>A.E. Thies, R. Winter</i> (FRG): Classification of Salt Affected Soils and Detection of their Changes by Digital Analysis of Multitemporal Landsat Data</p>	
9.00–10.30	Hall 8	VII	<p>Main Topic: Remote Sensing in Engineering Projects and Industrial Processes, WG5 Chairman: <i>H. Rib</i>, USA</p> <p><i>L. Homorodi</i> (H): Using Photographs for Traffic Control</p> <p><i>W. Heath, J.W. Dowling</i> (GB): The Use of Terrestrial Photogrammetry in Road Engineering</p> <p><i>H.T. Rib, R. Woodmann</i> (USA): Application of Remote Sensing for Highway Maintenance and Inventory Surveys</p> <p><i>H.T. Rib</i> (USA): Report of Activities of Working Group VII-5 Panel Discussion</p>	
11.00–12.30	Hall 2	VII	<p>Main Topics: Interpretation Methods, WG6 Processing and Integration of Multispectral Data, WG8 Experimental Work in Photo Interpretation, WG10 Chairman: <i>G. Hildebrandt</i>, Fed.Rep.Germany</p> <p><i>H. Schmidt-Falkenburg</i> (FRG): Über Analogieschlüsse in der Photointerpretation</p> <p><i>L. Fox, K.E. Mayer</i> (USA): Computer Classified Landsat Data Used as a Forest Stratifier</p> <p><i>B. Rhody</i> (FRG): 70 mm-Stereoluftbildaufnahmen für eine streifenweise Waldinventur</p>	

11.00–12.00	Hall 4	I/V	<p>Main Topic: Underwater Photogrammetry Chairman: G.T. McNeil, USA</p> <p><i>L.E. Mertens</i> (USA): In-water Photogrammetry-Acquisition, IP <i>V.A. Seifert</i> (USA): Underwater Acquisition Systems <i>J.C. Blankenburgh</i> (N): Off-Shore Photogrammetry and Remote Sensing <i>N. Welsh</i> (GB): Photogrammetric Procedures for a North Sea Oil Rig Leg Repair <i>G.T. McNeil</i> (USA): Report on Activities of Working Group I/6 Informal Discussion and Recommendation Session</p>
11.00–12.30	Hall 8	III	<p>Main Topic: Rectification, Correlation and Change Detection, WG1, 2 Chairman: <i>E. Mikhail</i>, USA</p> <p><i>Ph. H. Swain</i> (USA): Pattern Recognition for Remote Sensing Process and Prospects, IP <i>J.C. Deigan</i> (USA): Digital Color Calibration Technique <i>P.M. Teillet, B. Guindon, D.G. Goodenough</i> (CDN): Integration of Remote Sensing Data Sets by Rectification to UTM Coordinates with the Use of Digital Terrain Models <i>P.E. Anuta</i> (USA): Geometric Representation Methods for Multitype self-defining Remote Sensing Data Sets <i>E. Clerici, I.A. Harley</i> (AUS): Two Methods of Planimetric Restitution of Landsat Imagery Using Analogue Instruments <i>M. Masson d'Autume</i> (F): Le modèle de déformation un outil universal pour le traitement géométrique d'images quelconques</p>
	Hall 13/14	II	<p>Extra Session: Digital Restitution Equipment and Techniques <i>Ch. Vigneron</i> (F) <i>Z. Wang</i> (China, Beijing) <i>G. Capanni</i> (I) <i>J. Höhle</i> (CH)</p>
14.00–15.30	Hall 6		GENERAL ASSEMBLY
14.00–15.30		I, II, III, IV, V, VII	POSTER SESSIONS (see extra timetable page 190)
16.00–17.30	Hall 2	III	<p>Main Topic: On-Line Aerial Triangulation, WG4 Chairman: <i>G. Inghilleri</i>, Italy</p> <p><i>T.J. Blachut, V. Kratky</i> (CDN): Working Group III/4 Report <i>V. Kratky</i> (CDN): Present Status of on-line Analytical Triangulation, IP <i>E. Dorrer</i> (FRG): Real-time Orientation as Integral Part of on-line Analytical Aerial Triangulation <i>Ch. Slama</i> (USA): On-line Applications of an Analytical Plotter for Densification of Geodetic Control <i>G.R. Dowdleit</i> (USA): On-line Bundle Block Adjustment for Analytical Plotters</p>
16.00–17.30	Hall 4	VI	<p>Main Topic: Research and Education in Remote Sensing and Photogrammetry, WG1 Chairman: <i>Z. Sitek</i>, Poland</p> <p><i>A.J. Brandenberger</i> (CDN): Activity Report ISP WG VI-1, period 1976–1980 <i>A. Adamec, G. Ellis</i> (AUS): Remote Sensing: The Problems Involved in Designing Suitable Courses <i>O. Brande-Lavridsen</i> (DK): Problems?! The Aalborg University Centre Model of Problem-Oriented, Project-Organized Studies</p>

			<p><i>J.A.R. Blais, E.J. Krakiwsky</i> (CDN): A New University Centre of Surveying in Canada</p> <p><i>D.K. Rokos</i> (GR): Photogrammetry and Remote Sensing Education and Research in Greece and Cyprus</p> <p><i>H. Bonneval</i> (F): Education and Research in France, French Speaking Switzerland and African Francophone Countries</p>
16.00–17.30	Hall 7	VII	<p>Main Topics: Oceanography, Sea and Inland Ice, WG4 Interpretation of Radar Imagery, WG7 Chairman: <i>K.A. Ulbricht</i>, Fed.Rep.Germany</p> <p><i>K. Strübing</i> (FRG): Sea Ice Conditions in the Weddell Sea (Antarctica) During the German "Polarsirkel" Expedition (1979/80) as Documented by Tiros-N AVHRR Images</p> <p><i>A.M. Cowan</i> (GB): Sea Ice Morphology in the Context of Wave-Ice Interaction Studies</p> <p><i>F.T Barath</i> (USA): Synthetic Aperture Radar for Imaging Sea Ice</p> <p><i>P. De Leonibus, J. Ernst</i> (USA): A Summary of Wind and Wave Conditions for 28 Sept. 1978 Extracted from Conventional Data Sources</p> <p><i>R.C. Beal</i> (SA): Detection and Tracking of a Low Energy Swell System of the U.S. East Coast with the Seasat SAR</p> <p><i>D.B. Ross</i> (USA): Seasat Surface Wind Measurements Compared to Aircraft Underflight Measurements</p>
16.00–17.30	Hall 8	V	<p>Main Topic: Non-Conventional Techniques, WG3 Chairman: <i>J.W.C. Gates</i>, Great Britain</p> <p><i>R.J. Pryputniewicz</i> (USA): Holographic Numerical Analysis in Biostereometrics</p> <p><i>B. Drerup</i> (FRG): A Procedure for the Numerical Analysis of Moiré Topograms</p> <p><i>M. van Wijk</i> (CDN): Moiré Contourgraph – An Accuracy Analysis</p> <p><i>Florek, W. Mierzwa</i> (PL): Stereomeasurements of SEM Micrographs</p> <p><i>E. Layton et al.</i> (AUS): The Application of Photogrammetry to Quantitative Microscopy</p>

THURSDAY, JULY 24

JEUDI, 24 JUILLET

DONNERSTAG, 24. JULI

Technical Tours TT1.05 ERNO-Raumfahrttechnik and the old part of Bremen, 9.00–18.00, TT1.06 Hamburg Board of Works and Surveying Office, 9.00–12.30, TT1.15 Technical tour of the port, 9.00–11.30, TT1.16 BLOHM & VOSS shipyard, 9.00–12.30

9.00–10.30	Hall 2	II	<p>Main Topic: Processing of Remote Sensor Data, Image Display and Storage Chairman: <i>J.P. Guignard</i>, France</p> <p><i>J.C. Cazaux, B. Cabrières, M. Maincent</i> (F): Conception et développement du centre de rectification des images spatiales Landsat D et SPOT</p> <p><i>P. Colin, A. Hourani, B. Keith, P.L. Wendel</i> (F): Système d'aide au traitement numérique d'images. Application à la télédétection</p> <p><i>J.C. Deigan</i> (USA): Digital Color Calibration Technique</p> <p><i>J.N. Street, W.L. McIntosh, A.W. Manack</i> (USA): Scanning Cathode Ray Tube (CRT)-Systems for the Control of Photoreproductions – a Technology Review</p> <p><i>H. Hruska</i> (AUS): Darstellung digitaler Bilddaten in Großformat; Herstellung von rektifizierten Orthoscannerbildern und Bildverbänden</p>
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- T1 Day excursion to Bremen and Worpswede (artist's colony) 9.00–17.00
- T7 Day excursion to Schleswig "On the trail of the Vikings" 9.00–18.00
- SP9 Jazz evening in the "Fabrik" 20.00

9.00–10.30	Hall 4	V	<p>Main Topic: Biostereometrics, WG6 Chairman: <i>R.E. Herron</i>, USA</p> <p><i>R.E. Herron</i> (USA): Report of Working Group V-6, IP <i>F. Lippert et al.</i> (USA): Comparison Between Convergent and Bi-Plane X-Ray Photogrammetry Systems Used to Detect Total Joint Loosening, IP <i>J.P. Duncan et al.</i> (CDN): Pericontourography, IP <i>T. Takamoto, B. Schwartz</i> (USA): Photogrammetric Measurement of the Optic Disc Cup in Glaucoma <i>E. Hierholzer, W. Frobin</i> (FRG): Methods of Evaluation and Analysis</p>
9.00–10.30	Hall 8	VII	<p>Main Topic: Processing and Interpretation of Multispectral Data, WG8 Chairman: <i>H.J. Böhnel</i>, Fed.Rep.Germany</p> <p><i>B. BargeI</i> (FRG): Rechnergestützte Klassifikation von Fernerkundungsdaten durch Spektral-, Textur- und Formmerkmale <i>J. Larsson</i> (S): Use of a DTM in Digital Multispectral Analysis <i>U. Bausch, W.-D. Groch, W. Kestner, M. Sties</i> (FRG): Objektgesteuerte Segmentierung von Luftbildern <i>T. Yoshida, H. Kurioka, Y. Matsuo</i> (J): Post Processing for Classified Land Use <i>V. Cappellini, M. Fondelli, F. Untoni, G. Vanni</i> (I): Some High Efficiency Digital Techniques for Remote Sensing Data Processing</p>
11.00–12.30	Hall 2	III	<p>Main Topic: Digital Terrain Models Chairman: <i>J.M. Anderson</i>, USA</p> <p><i>K. Tempfli</i> (NL): Spectral Analysis of Terrain Relief for the Accuracy Estimation of DTM's <i>M.M. Allam, B.A. Low</i> (CDN): Software Package for the Contouring of Massive DEM in Mini-Computer Environment <i>D.K. Rose</i> (CDN): An Information Manipulation System for Digital Elevation Data <i>R. Winter</i> (FRG): Interpolation with Weight Functions – a General Interpolation Method</p>
11.00–12.30	Hall 4	VI	<p>Main Topic: Photogrammetric Education for Non-Photogrammetrists Chairman: <i>A.J. Brandenberger</i>, Canada</p> <p><i>H. Ferschke</i> (FRG): Minimum and Maximum Program of Photogrammetric Education for Cartographers, IP <i>Z. Sitek, J. Jachimski, W. Mierzwa</i> (PL): Minimum and Maximum Program of Photogrammetric Education for Surveyors, IP <i>T.M. Erez</i> (ISR): Photogrammetric Course Curriculae – Developed Countries, IP <i>S. Ghosh</i> (CDN): Status of Activities in Photogrammetry at Academic Institutions in the USA <i>H. Hoschtitzky</i> (NL): A Survey of Education and Research in Photogrammetry <i>S.O. Ihemadu</i> (Nigeria): The Regional Centre for Training in Aerial Surveys</p>
11.00–12.30	Hall 7	V	<p>Main Topic: Biostereometrics, WG6 Chairman: <i>R.E. Herron</i>, USA</p> <p><i>P. Burke</i> (GB): Serial Biostereometric Analysis of Growth Changes in the Face from Birth to Ten Years of Age, IP</p>

			<p><i>J. Jaakkola</i> (SF): Photogrammetric Measurement of the Human Face Using a Projected Grid</p> <p><i>A. Östman</i> (S): Treatment of Anthropometric Data for the Design of Children's Glasses</p> <p><i>B. Savara et al.</i> (USA): Phenotype mapping of Craniofacial Syndromes by Use of Biostereometrics</p> <p><i>H. Woltring</i> (NL): Biostereometrics in Optoelectronic Gait Measurement</p> <p><i>H.J. Hellmeier</i> (FRG): Photogrammetrische Bewegungsanalyse mittels Bandabsorptionstechnik</p>
11.00–12.30	Hall 8	VII	<p>Main Topic: Natural Land Resources, WG1 Chairmen: <i>J. Ulliman</i>, USA <i>C.M. Girard</i>, France</p> <p><i>C.M. Girard, M.C. Girard</i> (F): Analyse, description et classement des paysages ruraux à partir de données Landsat</p> <p><i>J.A. Jakobs</i> (FRG): Land Use and Parcelling Pattern on Landsat Images – the Key to Physiography and Soils of North German Landscapes</p> <p><i>D. Marchetti, G.J. Garcia</i> (BR): Yield Estimatives for Corn Crop Through the Colored Infrared Film</p> <p><i>E.A. Krauth</i> (FRG): Abschätzung des Ertrages von Feldfrüchten aus Luftaufnahmen</p>
14.00–15.30	Hall 2	VII	Business Meeting
	Hall 4	V	Business Meeting
	Hall 7	I	Business Meeting
	Hall 8	II	Business Meeting
	Hall 12	VI	Business Meeting
	Hall 13	III	Business Meeting
	Hall 14	IV	Business Meeting
15.00–15.45	Hall 6	VII	Remote Sensing: Film (Video via TV)
16.00–17.30	Hall 2	VII	<p>Main Topic: Oceanography, Sea and Inland Ice, WG4 Chairmen: <i>K.A. Ulbricht</i>, Fed.Rep.Germany <i>H.G. Gierloff-Emden</i>, Fed.Rep.Germany</p> <p><i>R. Thorén</i> (S): Application of Remote Sensing to Oceanography and Sea Ice</p> <p><i>R. Frassetto</i> (I): Remote Sensing for Oceanography</p> <p><i>H. Hengeveld, C. Livingstone, R. Lowry, R.O. Ramseier</i> (CDN): Results of the Canadian Surveillance Satellite Sea Ice Experiment</p> <p><i>H.-G. Gierloff-Emden</i> (FRG): Time scale as Interface of Satellite Data – Acquisition Systems Against Coastal Water and Tidal Region Processes. A Significant Problem for Remote Sensing (an Example of Some Phenomena and Processes of Coastal Environment)</p>
16.00–17.30		VII	<i>R. Bariou, D. Lecamus</i> (F): Film Presentation: "De la Photographie Aérienne à la Carte, une Méthode Simple d'Elaboration de Cartes d'Utilisation du Sol"
16.00–17.30	Hall 4	I	<p>Main Topic: Data Acquisition and Corrections Chairman: <i>Dr. I. Nakajima</i>, Japan</p> <p><i>T. Oka, K. Yazawa, T. Inagaki</i> (J): A Simple Method for Correcting the Geometric Distortion of Airborne Multispectral Data</p> <p><i>F.J. Worton</i> (GB): Primary Data Acquisition 1976–1980 in the United Kingdom</p> <p><i>J.-P. Antikides</i> (F): Introduction to Image Quality Definition and Requirements for Remote Sensing</p>

Y. Emori, Y. Yasuda, J. Iisaka (J): Radiometric Correction of Infra-red Aerial Color Film

Panel Discussion:
Image Quality and Image Geometry – Future Prospect 1980–1984

Moderator: *R. Welch (USA)*
Panelists: *H. Ziemann (FRG)*
C. Norton (USA)
F.J. Worton (GB)
W. Tayman (USA)
W.M. Strome (USA)

16.00–17.30

Hall 8

II/III
V

Main Topic: Image Processing
Chairman: N.N.

W. Göpfert (FRG): Image Correlation and Change Detection, IP

G. Begni et al. (F): Qualité Radiométrique et Géométrique des Images Fournies par le système SPOT

Closing of Exhibition, 19.00

FRIDAY, JULY 25

VENDREDI, 25 JUILLET

FREITAG, 25. JULI

9.00–10.30

Hall 2

III

Main Topic: Digital Differential Rectification
Chairman: *H.-P. Bähr, Fed.Rep.Germany*

R. Hössler (FRG): Differential Rectification of Digital or Digitized Imageries, IP

M. Nasu, K. Shimamoto, H. Kano (J): Digital Differential Rectification of Airborne MSS Data for Geothermal Mapping

W. Schuhr (FRG): Analysis and Application of Algorithm for Digital Orthophotos

R.D. Düppe, W.M. Göpfert (FRG): Geometrical Rectification of Overlapping Scanner Imagery Using a Modified Anblock Method

J. Jansa (AUS): Geometric Rectification of Blocks of Multispectral Scanner Images

P. Lohmann et al. (FRG): Digitale Bildverzerrung mit Hilfe eines Minicomputers

9.00–10.30

Hall 4

IV

Main Topics: Revision and Accuracy of Topographic Maps, WG2
Littoral Mapping, WG2

Chairmen: *G.C. Agarwal, India*
R. Brossier, France

M.M. Datta (IND): Map Revision in Developing Countries

J. Leatherdale (GB): Specifications for Mapping at Scales Between 1:1,000 and 1:10,000

K.J. Lester (ZA): The Use of Ultra Small Scale Aerial Photography in Medium Scale Mapping & Revision

E. Spiess (CH): Revision of Topographic Maps – Results of the Fribourg Test by Commission D of the OEEPE

E.A. Fleming (CDN): Change Detection by Landsat as Guide to Planning Aerial Photography for Revision Mapping

R. Brossier (F): Compte rendu d'activité du groupe de travail SIP 6

S. Murai (J): Littoral Mapping from Digitized Oblique Aerial Photograph

9.00–10.30

Hall 7

VII

Main Topic: Oceanography, Sea and Inland Ice WG4
Chairman: *K.A. Ulbricht, Fed.Rep.Germany*

P. Lohmann (FRG): Digitale Korrektur von Thermalaufnahmen von küstennahen Wasserflächen

K. Strübing (FRG): Application of Remote Sensing Techniques for Sea Ice Reconnaissance in the Western Baltic

			<p><i>A.P. Cracknell, S.M. Singh</i> (GB): The Determination of Chlorophyll-A and Suspended Sediment Concentrations for Eurasep Test Site from an Analysis of a Landsat Scene of 27th June 1977</p> <p><i>K.A. Ulbricht, U. Horstmann</i> (FRG): Landsat Imagery of Phytoplankton Development in the Baltic Sea</p> <p><i>W. Müksch</i> (FRG): Verification Trial of the Coast Morphology of Sand Embankment by Surf Waves from Landsat-Imagery</p>
11.00–12.30	Hall 2	II	<p>Main Topics: Image Display and Storage of Remote Sensing Data Digital SAR processing Chairman: <i>J.V. Taranik</i>, USA</p> <p><i>J.P. Guignard</i> (F): The I.S.P. SAR Processing Working Group Activities (Report of WG II/4)</p> <p><i>A.B.E. Ellis</i> (AUS): Image Data Storage</p> <p><i>M.T. Mason</i> (USA): Techniques for Digital Image Recording in Photogrammetry</p> <p><i>R. Ramachandran</i> (IND), <i>P. Lohmann</i> (FRG): Evaluation of a Digital Image Processing System</p> <p><i>V.D. Derviz, G.A. Zotov, V.V. Ereemeev, V.K. Zlobin</i> (SU): The System of Digital Image Processing a Tool for Integrated Automation of Map Production</p>
11.00–12.30	Hall 4	VI	<p>Main Topic: Photogrammetric Education in Developing Countries and Photogrammetric Periodicals Chairman: <i>J. Jachimski</i>, Poland</p> <p><i>M.M. Datta</i> (IND): Photogrammetric Education in Curriculae in Developing Countries, IP</p> <p><i>P.O. Fagerholm</i> (S): Optimum Photogrammetric Education in Developing Nations</p> <p><i>H. Hothmer</i> (FRG): Regional International Periodical (RIP) on Photogrammetry and Remote Sensing</p>
11.00–12.30	Hall 7	VII	<p>Main Topic: Oceanography, Sea and Inland Ice, WG4 Chairman: <i>K.A. Ulbricht</i>, Fed.Rep.Germany</p> <p><i>U. Wiczorek</i> (FRG): Charakterisierung von Wattypen durch Bildstrukturparameter</p> <p><i>E. Dennert-Möller, H.-P. Bähr</i> (FRG): Multispektrale Klassifizierung von Wattgebieten aus Landsat-Aufnahmen</p> <p><i>P. Lohmann, H. van der Piepen</i> (FRG): Evaluation of OCS Imagery for the Extraction of Ocean Bottom Features</p>
11.00–12.30	Hall 8	VII	<p>Main Topic: Processing and Interpretation of Multispectral Data, WG8 Chairman: <i>J. Talts</i>, Sweden</p> <p><i>S. Ekenobi</i> (FRG): Multispectral Image Classification in Remote Sensing: The Class-Boundaries Approach</p> <p><i>J.L. Labrandero, F. Palou</i> (E): Application of Principal Component Analysis to Soil Survey in Central Spain</p> <p><i>R. Streit</i> (FRG): Stand der Fernerkundung am Bayerischen geologischen Landesamt und Erfahrungen mit der Luftbildauswertung</p> <p><i>N. Oprescu, E. Mandescu</i> (R): On the Hard- and Software of the System of Processing and Converting Video-information; Some Obtained Results</p> <p><i>V. Calistru, N. Oprescu</i> (R): Regarding the Experience with Drawing up by Remote Sensing of Thematic Maps in Supervised Regime; Especially in Deltaic Areas</p> <p><i>M.F. Oudin, D. Chaume</i> (F): Une aide à la photo-interprétation des images LANDSAT</p>
14.00–17.30	Hall 2	VII	<p>Main Topic: Remote Sensing from Space Chairman: <i>G. Hildebrandt</i>, Fed.Rep.Germany</p>

J.V. Taranik, P.G. Thome (USA): Development of Space Technology for Resource Applications in the 1980's

N.L. Makarenko, Y.P. Kienko (SU): Remote Sensing of Natural Resources in the USSR

M.L. Reynolds (F): Optical Imaging Instruments for ESA Remote Sensing Programmes

F.J. Doyle (USA): Earth Orbiting Remote Sensor Systems for the 1980's

J.A. Howard (I): Towards a World Index of Space Imagery

R.M. Hoffer, P.H. Swain (USA): Computer Processing of Satellite Data for Assessing Agricultural, Forest and Rangeland Resources

R. Mühlfeld (FRG): Bilanz über den Einsatz der Satellitenfernerkundung in den Bereichen Geologie/Lagerstättenuche, Hydrogeologie, Bodenkunde/Landnutzung im Rahmen von Projekten der Bundesanstalt für Geowissenschaften und Rohstoffe Hannover

Panel Discussion: Remote Sensing from Space

Moderator: *G. Konecny (FRG)*

Panelists: alle speakers and

A. Fontanel (F)

E. Nakajima (J)

F. Schlude (FRG)

N.L. Makarenko (SU)

G. Hildebrandt (FRG)

S. Murai (J)

I.T. Antipov (SU)

CLOSING SESSION, Hall 1, 18.00–19.00