

Monday · 27 · October

- 9:30-9:40. Opening and welcome remarks
E. M. Galimov, J. W. Head, L. Esposito.
- 9:40-13:00. Mars
9:40-10:00. J. W. Head,
THE LATE NOACHIAN-EARLY HESPERIAN GROUNDWATER CYCLE ON MARS.
10:00-10:20. D. Shean,
PAVONIS MONS FAN-SHAPED DEPOSIT - A COLD-BASED GLACIAL MODEL.
10:20-10:40. I. G. Mitrofanov et al.,
VERTICAL DISTRIBUTION OF SHALLOW WATER IN MARS SUBSURFACE FROM HEND/ODYSSEY DATA.
10:40-11:00. M. L. Litvak et al.,
OBSERVATIONS OF MARS SEASONAL CAPS FROM HEND/ODYSSEY DATA.
11:00-11:20. R. O. Kuzmin, E. V. Zabalueva and A. S. Krasilnikov,
GROUND ICE DISTRIBUTION IN THE MARTIAN REGOLITH.
11:20-11:40. M. A. Kreslavsky, V.-P. Kostama and J. W. Head,
CRATERS AND OTHER CIRCULAR FEATURES IN NORTHERN CIRCUMPOLAR AREA, MARS.
11:40-12:00. S. C. Werner, S. van Gasselt, G. Neukum,
GIANT POLYGONS IN MARTIAN LOWLAND PLAINS AND THE EXISTENCE OF AN OCEAN.
12:00-12:20. J. Korteniemi, V.-P. Kostama and J. Raitala,
POST-IMPACT DEPRESSIONS ON MARTIAN CRATER FLOORS: PRELIMINARY RESULTS AND A CASE STUDY
OF THE GREATER HELLAS REGION.
12:20-12:40. G. G. Michael,
SURVEY OF MARS CRATER TOPOGRAPHY FROM MOLA DATA.
12:40-13:00. A. Horváth et al.,
BIOGENIC RINGED DARK DUNE SPOTS ON MARS.
- 13:00-13:40. Lunch break
- 13:40-15:40. Mars studies, Earth, Callisto
13:40-14:00. A. Chicarro,
STATUS OF MARS EXPRESS AND FUTURE MARS EXPLORATION IN ESA.
14:00-14:20. A. V. Rodin and R. J. Wilson,
WAVE EFFECTS IN THE MARTIAN WATER CYCLE.
14:20-14:40. A. T. Basilevsky et al.,
THE TERRA ARABIA LOW EPITHERMAL NEUTRON FLUX ANOMALY: POSSIBLE CORRELATION WITH
PRESENCE OF LAYERED DEPOSITS.
14:40-15:00. G. V. Pechernikova, A. V. Vityazev and A. G. Bashkirov,
EARLY EARTH AND Xe-MISSING PROBLEM SOLUTION.
15:00-15:20. A. A. Kadik,
THE MAGMATIC TRANSPORT OF CARBON AND HYDROGEN CONSTITUENTS FROM REDUCED PLANETARY
INTERIORS.
15:20-15:40. V. A. Kronrod and O. L. Kuskov,
AN INTERNAL LIQUID-WATER OCEAN IN CALLISTO.
- 15:40-16:00. Coffee break
- 16:00-18:00. Poster session: Mars and lunar studies
- 18:00-20:00. American buffet and slide session

Tuesday · 28 · October

- 9:00–13:00. **Venus studies and impact effects**
9:00–9:20. A. S. Krassilnikov and J. W. Head,
CALDERAS ON VENUS AND EARTH: COMPARISON AND MODELS OF FORMATION
9:20–9:40. S. Franck and C. Bounama,
COMPARATIVE DEGASSING HISTORY OF EARTH AND VENUS.
9:40–10:00. M. Aittola and V.-P. Kostama,
VENUSIAN CORONA-NOVAE WITH ARCUATE GRABEN: EVIDENCE FOR LAVA-FLOW MODIFICATION.
10:00–10:15. I. V. Setyaeva and A. T. Basilevsky,
EJECTA OUTFLOWS OF VENUSIAN IMPACT CRATERS: CORRELATION WITH THE DARK HALO
PRESERVATION DEGREE.
10:15–10:35. M. A. Kreslavsky and L. V. Starukhina,
POSSIBLE ROLE OF MAGNETIC MATERIALS IN RADIOPHYSICS OF VENUS SURFACE.
- 10:35–10:50. **Coffee break**
10:50–11:10. N. V. Bondarenko and J. Head,
THICKNESS OF CRATER-RELATED MANTLES ON VENUS.
11:10–11:30. A. T. Basilevsky and J. W. Head,
AIRFALL CRATER DEPOSITS ON THE SURFACE OF VENUS.
11:30–12:00. L. Esposito, R. M. Jones and F. Rogers,
SAGE: A NASA NEW FRONTIERS CANDIDATE MISSION TO VENUS.
12:00–12:20. O. A. Lukanin and A. A. Kadik,
POSSIBLE REASONS OF LOW Fe^{3+}/Fe^{2+} RATIOS IN TEKTTITES IN COMPARISON WITH THAT OF INITIAL
TARGET MATTER INVOLVED IN THE IMPACT PROCESS.
12:20–12:40. M. V. Gerasimov et al.,
ON THE EVAPORATIVE CHEMICAL DIFFERENTIATION OF IMPACT-PRODUCED MELTS.
12:40–13:00. V. I. Feldman, L. V. Sazonova, E. A. Kozlov,
HIGH DENSITY PHASES AS AN ATTRIBUTE OF IMPACT STRUCTURES. CONDITIONS OF FORMATION AND
PRESERVATION IN SHOCK PROCESSES.
- 13:00–13:40. **Lunch break**
- 13:40–16:20. **The Moon, Mercury, and regolith**
13:40–14:00. B. H. Foing et al.,
ESA SMART-1 MISSION TO THE MOON.
14:00–14:20. C. M. Pieters,
SYSTEMATIC GLOBAL MIXING AND MELTING IN LUNAR SOIL EVOLUTION.
14:20–14:40. V. V. Shevchenko,
EVALUATING THE STRUCTURE OF THE SURFACE LAYER OF MERCURY.
14:40–15:00. D. V. Petrov, Yu. G. Shkuratov,
PHOTOMETRY OF REGOLITH-LIKE SURFACES: ALBEDO AND SURFACE ROUGHNESS EFFECTS.
15:00–15:20. V. V. Shevchenko et al.,
REMOTE DETERMINATION OF LUNAR SOIL MATURITY.
15:20–15:40. V. Kaydash et al.,
MAPS OF MATURITY-CORRELATED PARAMETERS OF THE LUNAR REGOLITH.
15:40–16:00. T. V. Shingareva et al.,
SIMULATION OF SOME SPACE WEATHERING EFFECTS IN PHOBOS REGOLITH BY LASER IRRADIATION OF
CARBONACEOUS CHONDRITE MIGHEI.
16:00–16:20. R. Wagner, J. W. Head III, U. Wolf, and G. Neukum,
STRATIGRAPHY AND AGES OF LUNAR VOLCANIC DOMES: HANSTEEN AND HELMET REGIONS.
- 16:20–16:30. **Coffee break**
- 16:30–18:30. **Poster session: Mercury, Venus, and other topics**
- 18:30. **Adjourn**

List of Poster Talks

Mars

- A.S. Kozyrev et al.,
SUBSURFACE WATER DISTRIBUTION IN MARTIAN EQUATORIAL REGIONS FROM HEND/ODYSSEY DATA.
- S.V. Charyshnikov et al.,
SEARCH OF CORRELATION BETWEEN NUCLEAR LINES MEASURED BY GRS AND NEUTRON DATA FROM HEND ONBOARD 2001 MARS ODYSSEY.
- V. Y. Grinkov et al.,
MARS ODYSSEY: SEARCH FOR SEASONAL VARIATIONS OF MARTIAN GAMMA-RAY FLUX BASED ON HEND/ODYSSEY DATA.
- V. Tretyakov et al.,
NUMERICAL SIMULATION OF VERTICAL DISTRIBUTION OF NEUTRONS BORN BY COSMIC RAYS IN A MODEL MARTIAN SOILS FOR PROCESSING OF HEND/ODYSSEY DATA.
- B. N. Korchuganov et al.,
MODIFIED ALPHA PARTICLE X-RAY SPECTROMETER FOR USE IN PLANETARY RESEARCH.
- Ya. A. Ilyushin,
ELECTRICAL MODEL OF MARTIAN POLAR CAPS: POSSIBLE IMPLICATIONS FOR ORBITAL RADAR SOUNDING.
- S. van Gasselt, D. Reiss, G. Neukum,
SOUTH-POLAR POLYGONAL PATTERNS – PHENOTYPES AND LOCAL GEOMORPHOLOGIC CONTEXT.
- G. G. Michael, A. F. Chicarro, J. F. Rodionova, V. V. Shevchenko, J. A. Iluhina, E. A. Kozlova,
BEAGLE-2 LANDING SITE ATLAS.
- J. A. Iluhina, A. V. Lagutkina, J. F. Rodionova,
SOME FEATURES OF THE CRATERING OF ISIDIS BASIN.
- I. A. Ushkin, G. G. Michael, E. A. Kozlova,
THE MORPHOMETRIC ANALYSIS OF THE FEATURES OF MARTIAN CRATERS.
- H. Lahtela et al.,
THE CRATER LAKES AND OTHER IMPLICATIONS FOR STANDING BODIES OF WATER IN HELLAS REGION, MARS.
- D. Marchant, J. Head and M. Kreslavsky,
TONGUE-SHAPED LOBES ON MARS: RELATION TO ROCK GLACIER DEPOSITS AND LONG-TERM HISTORY OF EMPLACEMENT.
- A. Palmero, S. Sasaki, R. O. Kuzmin and R. Greeley,
SOURCES OF WATER RELATED TO THE EXCAVATION OF THE SHALBATANA VALLEY SYSTEM, MARS
- V. S. Isaev, O. N. Abramenko,
DEMONSTRATION OF POLYGONAL ICE-WEDGES TERRAINS ON THE TAZOVSKY PENINSULA IN WESTERN SIBERIA AND SOME POLYGONAL PATTERNS ON MARS.
- T. Pócs et al.,
ON THE BASIS OF TERRESTRIAL ANALOGUE SITE STUDIES ARE THE DARK DUNE SPOTS REMNANTS OF THE CRYPTO-BIOTIC-CRUST OF MARS?
- E. V. Dmitriev,
WHEN MARS WAS SIMILAR TO JUPITER.
- A. V. Dolitsky, J. F. Rodionova, R. M. Kochetkov, A. F. Ainietdinova,
MARS: MOVEMENT OF GEOGRAPHICAL POLES AND DEFORMATION OF ITS SURFACE.

Venus

- M. A. Ivanov and J. W. Head,
GEOLOGIC MAP OF MYLITTA FLUCTUS QUADRANGLE (V-61), VENUS.
- A. S. Krassilnikov and J. W. Head,
CALDERAS ON VENUS AND EARTH . PLANET EARTH: OVERVIEW OF CALDERAS.
- G. A. Burba,
ARRANGEMENT OF LAVA CHANNELS ON THE SURFACE OF VENUS: A POSSIBLE EVIDENCE OF THE INTERIOR DYNAMICS.
- S. M. McColley and J. W. Head,
VOLCANIC FISTOON DEPOSITS ON VENUS: FRACTAL ANALYSES AND IMPLICATIONS FOR EMPLACEMENT.

Lunar studies

E. V. Pivchenkova and V. P. Kryuchkov,
VENUS: GLOBAL MAPPING OF RIDGE BELT PATTERNS.

N. Opanasenko and Yu. Shkuratov,
MICROSTRUCTURE PROPERTIES OF THE REINER GAMMA FORMATION AS DEDUCED FROM EARTH-BASED
PHOTOMETRY AND POLARIMETRY.

V. Omelchenko, Yu. Shkuratov, C. Pieters, D. Stankevich, V. Kaydash,
MAPS OF LUNAR PYROXENES.

Yu.V.Barkin, J.M. Ferrandiz J. Navarro,
VARIATIONS OF ELASTIC ENERGY IN EARTH-MOON SYSTEM AND THEIR CORRELATIONS WITH
EARTHQUAKES AND MOONQUAKES.

E. Zubko et al.,
THE ROLE OF SINGLE SCATTERING IN SHAPING OF NEGATIVE POLARIZATION BRANCHES OF DARK
REGOLITH-LIKE SURFACES.

S. G. Pugacheva, V.V. Shevchenko,
PHYSICAL AND MINERALOGY CHARACTERISTICS OF THE LUNAR REGOLITH IN THE AREAS OF THE
THERMAL ANOMALIES.

E. A. Kozlova,
TEMPERATURE MODE IN COLD TRAPS ON THE MOON.

V. V. Shevchenko et al.,
REMOTE METHOD OF IDENTIFICATION OF THE EJECTA LUNAR TERRAINS AND THEIR COMPOSITION
FITURES.

A. V. Kurpichev,
PREPARATION OF THE LUNAR SURFACE SURVEYING RESULTS ON THE PROGRAM «ZOND» FOR
REPRESENTATION IN INFORMATION SYSTEM.

G. F. Makarenko,
LUNAR CRATERS HAVE ENDOGENIC NATURE.

Impact craters, meteorites and other topics

A. A. Valter,
RECENT RESULTS OF UKRAINIAN SHIELD ASTROBLEMES STUDY AND THEIR POSSIBLE SIGNIFICANCE TO
GEOLOGY AND PLANETOLOGY.

G. A. Burba,
THE GEOLOGIC EVOLUTION OF THE URAL MOUNTAINS: A SUPPOSED EXPOSURE TO A GIANT IMPACT.

M. V. Gerasimov and E. N. Safonova,
IMPACTS OF LARGE METEORITES AS A POSSIBLE SOURCE OF ORGANIC COMPONENTS ON TITAN.

A. A. Barenbaum,
DEFINITION OF PARAMETERS OF NUCLEI OF GALACTIC COMETS BY MEASUREMENT OF DIAMETERS OF
CRATERS ON MARS AND THE MOON.

L. P. Khrjanina,
ARKHYS - DISTURBED METEORITE CRATER IN NORTH CAUCASUS.

V.A. Alexeev,
METEORITE ABLATION BASED ON COSMIC RAY TRACK STUDIES.

L. L. Kashkarov et al.,
TO THE PROBLEM OF SEARCH FOR SUPER-HEAVY ELEMENT TRACES IN THE METEORITES: PROBABILITY OF
THEIR DISCOVERY BY THE NUCLEAR SPONTANEOUS FISSION TRACKS.

A. I. Ivliev et al.,
THE COMPLEX RESEARCH OF SHOCK-THERMAL HISTORY OF THE ENSTATITE CHONDRITES.

L.L. Kashkarov et al.,
KAIDUN CR2 CHONDRITE: RADIATION AND SHOCK-THERMAL HISTORY OF THE GLASS INCLUSIONS.

Z. A. Lavrentjeva et al.,
AUBRITES: TRACE ELEMENT ABUNDANCES IN SEPARATED PHASES AND PETROGENESIS.

A. B. Makalkin, V. A. Dorofeeva and V. V. Busarev,
FORMATION OF HYDRATED SILICATES IN EDGEWORTH-KUIPER BELT OBJECTS.

N. I. Perov and A. A. Nahodneva,
ON A PROBLEM FOR SEARCHING OF EXO-PLANET SATELLITES.

G. W. Patterson and J. W. Head,

THE CASTALIA MACULA REGION: A PLATE RECONSTRUCTION MODELLING TEST CASE.
R. Wagner and G. Neukum,
GEOLOGY AND STRATIGRAPHY OF IMPACT CRATERS ON CALLISTO – RESULTS FROM HIGH-RESOLUTION IMAGES OF THE GALILEO SSI CAMERA.

G. A. Leikin and A. N. Sanovich,
SOME PROBLEMS OF THE EVOLUTION OF ASTEROID – RUBBLE PILE.

V. V. Shevchenko,
MERCURY: LOCAL VARIATIONS OF THE PHOTOMETRIC RELIEF.

A. P. Vid'machenko and A. V. Morozhenko,
ON ABILITY OF STUDY OF NATURE OF CELESTIAL BODIES UNDER POLARIZATION MEASUREMENTS.

F. M. Garcia, J. M. Ferrandiz, Yu. V. Barkin,
SPHERICAL ANALYSIS OF GEOMETRY OF EARTH STRUCTURES.

Yu. I. Stakheev,
REGULARITIES OF THE “MERCURY BREATH” OF THE EARTH. II. AMPLITUDES OF MERCURY VAPOR FLOW AND THEIR SENSITIVITIES TO EARTH-CRUST TIDES.

A. M. Shirenin,
SOME RESULTS BY USING OF NONLINEAR ALGORITHM FOR CALCULATION OF TRANSFORMATION PARAMETERS BETWEEN PLANET COORDINATE SYSTEMS.

S. M. Leonenko,
THE CONCEPT ON FORMATION OF THE TERRITORIAL - SPATIAL DATA BASE DEVELOPMENT AS A TOOL TO REPRESENT THE CARTOGRAPHIC INFORMATION OF SOLAR SYSTEM BODIES.

S. G. Valeev, E. S. Sergeyev,
TECHNIQUE, ALGORITHMS AND THE SOFTWARE OF DYNAMIC REGRESSION MODELLING.

S. G. Valeev, E. S. Sergeyev,
MODELLING OF MOVEMENT OF THE EARTH'S POLES ON THE BASIS OF THE DRM-APPROACH.

S. G. Valeev, E. S. Sergeyev,
PERSPECTIVES OF APPLICATION OF METHODOLOGY OF DRM-APPROACH FOR MODELLING SOLAR ACTIVITY.

G. G. Kochemasov,
TECTONICALLY AND CHEMICALLY DICHOTOMIC MARS IS THE LEAST OUTGASSED OF TERRESTRIAL PLANETS.

G. G. Kochemasov,
STRUCTURES OF THE WAVE PLANETOLOGY AND THEIR PROJECTION ONTO THE SOLAR PHOTOSPHERE: WHY SOLAR SUPERGRANULES ARE 30,000 KM ACROSS.