

Sorted by: Newest  
Publication Preview

Source  
More of a kind: the lunar McGetchin and Chiemgau impact craters  
New  
Preprint  
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October 2026  
Kord Ernstson

Publication Preview

Source  
High-resolution digital terrain models, Rayleigh-Taylor/Kelvin-Helmholtz instabilities, and hydrocode modeling: evidence of a Holocene low-altitude "touchdown" airburst impact event over Central Europe from the French border to the Czech Republic  
New  
Poster  
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August 2026MetSoc 2026  
Kord ErnstsonJens PoßekelAllen West

Publication Preview

Source  
HIGH-RESOLUTION DIGITAL TERRAIN MODELS, RAYLEIGH-TAYLOR/KELVIN-HELMHOLTZ INSTABILITIES, AND HYDROCODE MODELING: EVIDENCE OF A HOLOCENE LOW-ALTITUDE "TOUCHDOWN" AIRBURST IMPACT EVENT OVER CENTRAL EUROPE FROM THE FRENCH BORDER TO THE CZECH REPUBLIC  
New  
Conference Paper  
Full-text available  
June 2026MetSoc 2026  
Kord ErnstsonJens PoßekelAllen West

Publication Preview

Source  
High-resolution digital terrain models DTM: Rayleigh-Taylor and Kelvin-Helmholtz instabilities and impact cratering in unhardened loose sediments -the Holocene Chiemgau airburst impact case  
Poster  
File available  
March 202657th LPSC 2026  
Kord ErnstsonJens PoßekelAllen West

Publication Preview

Source  
Hydrocode modeling of impact craters: Chiemgau low-altitude airburst impact strewn field, Germany  
Poster  
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March 202657th LPSC 2026  
Allen WestKord Ernstson

Publication Preview

Source

Publication Preview

Source

Comment on Rappenglück, M.A., Rappenglück, B., (2026) Towards a Methodological Validation of Digital Terrain Models as a Potential Impact Criterion: Requirements, Constraints, and a Roadmap for Empirical Testing. - 57th LPSC, #1078

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March 2026

Kord ErnstsonJens Poßekel

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Comment on Rappenglück, M.A., Rappenglück, B., (2026) Towards a Methodological Validation of Digital Terrain Models as a Potential Impact Criterion: Requirements, Constraints, and a Roadmap for Empirical Testing. - 57th LPSC, #1078

Preprint

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February 2026

Kord ErnstsonJens Poßekel

Publication Preview

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DIGITAL TERRAIN MODEL (DTM) TOPOGRAPHY OF SMALL CRATERS IN THE HOLOCENE CHIEMGAU (GERMANY) METEORITE IMPACT STREWN FIELD

Conference Paper

Full-text available

July 202011th Planetary Crater Consortium 2020 (LPI Contrib. No. 2251)

Kord ErnstsonJens Poßekel

Publication Preview

Source

Digital terrain model DTM 1: The impact airburst strewn field of the granitic melt plate Bach a.d. Donau - evidence of a separate event to the Chiemgau impact (computer-translated from the German original)

Article

Full-text available

October 2025

Kord ErnstsonJens Poßekel

Publication Preview

Source

EP41E-VR8830 High-resolution Digital Terrain Models (DTM): a new approach to impact cratering

Conference Paper

Full-text available

December 2025AGU 2025

Kord ErnstsonJens Poßekel

Publication Preview

Source

Eggstätt-Hemhofen Lakes (Upper Bavaria): "Touchdown" airburst impact instead of kettle holes in a landscape of glacial disintegration - The lake district in the new light of impact research: Chiemgau airburst impact - Digital terrain model - Hydrocode models - Rayleigh-Taylor/Kelvin- Helmholtz instabilities

Preprint

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February 2026

Kord ErnstsonJens Poßekel

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Source

HIGH-RESOLUTION DIGITAL TERRAIN MODELS DTM: RAYLEIGH-TAYLOR AND KELVIN- HELMHOLTZ INSTABILITIES AND IMPACT CRATERING IN UNHARDENED LOOSE SEDIMENTS - THE HOLOCENE CHIEMGAU AIRBURST IMPACT CASE

Conference Paper

Full-text available

February 202657th LPSC 2026

Kord ErnstsonJens PoßekelAllen West

Publication Preview

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HIGH-RESOLUTION DIGITAL TERRAIN MODELS, RAYLEIGH-TAYLOR/KELVIN-HELMHOLTZ INSTABILITIES, AND HYDROCODE MODELING: EVIDENCE OF A HOLOCENE LOW-ALTITUDE "TOUCHDOWN" AIRBURST IMPACT EVENT OVER CENTRAL EUROPE FROM THE FRENCH BORDER TO THE CZECH REPUBLIC

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High-resolution Digital Terrain Models (DTM): a new approach to impact cratering . - Click the source URL

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High-resolution digital terrain models DTM: Rayleigh-Taylor and Kelvin-Helmholtz instabilities and impact cratering in unhardened loose sediments -the Holocene Chiemgau airburst impact case

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High-resolution digital terrain models, Rayleigh-Taylor/Kelvin-Helmholtz instabilities, and hydrocode modeling: evidence of a Holocene low-altitude "touchdown" airburst iimpact event over Central Europe from the French border to the Czech Republic

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August 2026MetSoc 2026

Kord ErnstsonJens PoßekelAllen West

Publication Preview

Source

MANY OF A KIND: THE DIGITAL TERRAIN MODEL AND A NEW CLUSTER OF LARGER AND SMALLER CRATERS ACCUMULATE THE CHIEMGAU METEORITE IMPACT STREWN FIELD

Conference Paper

Full-text available

May 2025MetSoc Meeting 2025 Perth Australia

Kord ErnstsonJens Poßekel

Publication Preview

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MARS AND MOON ON EARTH: MULTIPLE IMPACT AND OBLIQUE IMPACT PATTERNS FROM DIGITAL TERRAIN MODELS IN THE HOLOCENE CHIEMGAU CRATER STREWN FIELD

Conference Paper

Full-text available

June 2024Lunar & Planetary Science Conference LPSC 2024

Kord ErnstsonJens PoßekelMichael A. Rappenglück

Publication Preview

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Many of a kind: the Digital Terrain Model and a new cluster of larger and smaller craters accumulate the Chiemgau meteorite impact strewn field

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July 2025Meteoritical Society Meeting 2025  
Kord ErnstsonJens Poßekel

Publication Preview  
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Mars and Moon on Earth: Multiple Impact and Oblique Impact Patterns from Digital Terrain Models in the Holocene Chiemgau Crater Strewn Field  
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July 2024Lunar & Planetary Science Conference LPSC 2024  
Kord ErnstsonJens PoßekelMichael A. Rappenglück

Publication Preview  
Source  
PARADIGM SHIFT IN IMPACT RESEARCH: THE HOLOCENE CHIEMGAU METEORITE IMPACT CRATER STREWN FIELD AND THE DIGITAL TERRAIN MODEL  
Conference Paper  
Full-text available  
June 2024Lunar & Planetary Science Conference LPSC 2024  
Kord ErnstsonJens Poßekel

Publication Preview  
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Paradigm Shift in Impact Research: The Holocene Chiemgau Meteorite Impact Crater Strewn Field and the Digital Terrain Model  
Poster  
File available  
July 2024Lunar & Planetary Science Conference LPSC 2024  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
Pingos and mardels: high-resolution digital terrain models suggest meteorite impact craters in addition to permafrost, sinkhole and dead-ice formation models.  
Article  
Full-text available  
April 2023  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
Pingos, Mardels and Meteorite Impact Craters  
Article  
Full-text available  
December 2020  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
THE DIGITAL TERRAIN MODEL: NEW INSIGHTS INTO THE HOLOCENE LAKE TÜTTENSEE (GERMANY) MULTIPLE IMPACT STRUCTURE AS PART OF THE CHIEMGAU LOW ALTITUDE TOUCHDOWN AIRBURST EVENT  
Conference Paper  
Full-text available  
March 2025Lunar & Planetary Science Conference 2025  
Jens PoßekelKord Ernstson

Publication Preview  
Source  
The Chiemgau Impact (Germany) meteorite crater strewn field and the role of Digital Terrain Models. -Model craters, Part 2: the Bergham, Riederting, Seeon Natural-Monument, Purkering and Windschnur medium-sized craters

Preprint  
File available  
November 2025  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
The Chiemgau Impact (Germany) meteorite crater strewn field and the role of high-resolution Digital Terrain Models. - Model craters, Part 3: the large craters  
Preprint  
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December 2025  
Kord ErnstsonJens Poßekel  
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The Chiemgau Impact (Germany) meteorite crater strewn field. Model craters, Part 1: the small #004 Emmerting, Kaltenbach and Mauerkirchen craters, and the role of Digital Terrain Models  
Preprint  
File available  
September 2024  
Kord ErnstsonHans-Peter MatheislJens PoßekelW Mayer

Publication Preview  
Source  
The Chiemgau Meteorite Impact Strewn Field and the Digital Terrain Model: "Earthquake" Liquefaction from Above and from Below  
Poster  
File available  
December 2024American Geophysical Union AGU 2024  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
The Dead Ice Basin Hiking Trail from Haag i.Obb. and the Digital Terrain Model DTM 1: The ice age dead ice holes turn out to belong to a meteorite crater impact strewn field. (computer-translated from the German original)  
Preprint  
File available  
August 2025  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
The Digital Terrain Model (DTM) and the evaluation of known and the search for new craters in the Chiemgau meteorite impact strewn field  
Article  
Full-text available  
January 2017  
Kord Ernstson

Publication Preview  
Source  
The Digital Terrain Model: New Insights into the Holocene Lake Tüttensee (Germany) Multiple Impact Structure as Part of the Chiemgau Low Altitude Touchdown Airburst Event  
Poster  
File available  
April 2025Lunar & Planetary Science Conference  
Jens PoßekelKord Ernstson

Publication Preview  
Source

The Lower Rhine (Niederrhein) impact -a Quaternary low-altitude touchdown airburst impact field in northwestern Germany. -Rayleigh- Taylor and Kelvin-Helmholtz instability structures and the high- resolution digital elevation model  
New  
Preprint  
File available  
April 2026  
Kord ErnstsonJens Poßekel

Publication Preview  
Source  
The New World of Impact Cratering: The High- Resolution Digital Terrain Model and Hydrocode Modeling -The Saarland (Germany) Low Altitude Touchdown Airburst Impact Event  
Poster  
File available  
April 2025Lunar & Planetary Science Conference 2025  
Kord ErnstsonWerner MüllerAndreas Gawlik-WagnerAllen West