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### ALMAHATA SITTA-2008 TC3-METEORITE-0.630g.-EL CHONDRITE RARE FORECASTING FALL!



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**Unique date in the history of meteorites!  
Debris from Asteroid 2008 TC3!  
Ultra rarely special meteorite material!  
[A Meteorite not only for science also for collectors!](#)**

**Almahata Sitta- Asteroid 2008 TC3 -**  
20°43.04'N, 32°30.58'E / 20°46.15N, 32°17.96'E  
Country: ("Station 6" in Arabic), Nahr an Nil, Nubian Desert, Sudan

Stone: Unondritic breccia El chondrite

Fall: 7 October 2008, 05:46 h local time (UT+3)

Approx. recovered weight: 3950g ; 47 pieces;

~ultra rarely~

#### Almahata Sitta - Asteroid 2008 TC3 - "Forecasting Witness Fall"

Reported: [Meteoritical Bulletin Database No. 96, 2009](#)

**History:** On October 6, 2008, a small asteroid called 2008 TC3 was discovered by the automated Catalina Sky Survey 1.5 m telescope at Mount Lemmon, Tucson, Arizona, and found to be on a collision course with Earth. Numerous astronomical observatories followed the object until it entered the Earth's umbra at Oct. 7.076 UTC the next day. The astrometric position of 295 observations of 2008 TC3 over the period Oct. 6.278 to Oct. 7.063 was used to calculate the approach trajectory over the impact location in northern Sudan. The object exploded at a high ~37 km altitude over the Nubian Desert, and as a result the meteorites are spread over a large area. A search was organized by the University of Khartoum on Dec. 2–9, led by P. Jenniskens (SETI Institute) and M. H. Shaddad (Khartoum).

**Physical characteristics:** During the first expedition, 15 meteorites were found along the approach path of the asteroid, for a total weight of 563 g. A second field expedition, on Dec. 25–30, added 37 meteorites, for a total recovered weight of 3.95 kg, spread over an area of 28 × 5 km. The meteorites are dark, thinly crusted, and roundish in shape, ranging in size from 1–10 cm.

**Petrography** (M. Zolensky, JSC, and A. Steele, CIW): The sample is a fine-grained, fragmental breccia with subrounded mineral fragments and olivine aggregates embedded in a cataclastic matrix of ureilitic material. Mineral fragments include polycrystalline olivine, low-Ca pyroxene, pigeonite and carbon-rich aggregates up to 0.5 mm in maximum dimension, kamacite, and troilite. The examined samples have considerable porosity; the pore walls are commonly coated by anhedral to euhedral crystals of low-Ca pyroxene (Fs2Wo3) and olivine (Fa12–14), and in some instances spherules of kamacite and botryoidal masses of troilite. Most olivine and pyroxene aggregates have interstitial silicates with Si-content that increases adjacent to metal grains. Some clasts consist of rounded pyroxene grains containing an abundant nanophase Fe-rich mineral. Aggregates of carbonaceous material are common and measure up to 0.5 mm—these contain fine-grained troilite and kamacite, the latter containing Si and P. The major carbon phase is graphite. Shock effects are not apparent.

**Mineral compositions and geochemistry:** Low-Ca pyroxene: Fs2Wo5-Fs17Wo4, Cr2O3 = 0.33–1.02 wt%; pigeonite: Fs15Wo5-Fs18Wo11, Cr2O3 = 0.72–1.11 wt%, olivine (Fa8–15, CaO = 0.15–0.51 wt%, Cr2O3 = 0.03–1.58 wt%). Kamacite is Fe0.92Ni0.08-Fe0.96Ni0.04. Troilite contains up to 4.3 wt% Cr. Mineral grains exhibit no zoning.

**Classification:** Achondrite (ureilite, polymict, anomalous). Anomalous features include lack of zoning of olivine, large size of carbonaceous aggregates, and overall fine-grained texture.

**Type specimens:** Samples with masses ranging from a few to a few hundred grams for a total of 3.95 kg are on deposit at Khartoum.

### Almahata Sitta



#### Note:

I refer my meteorites directly from the Meteoritehunter. Therefore: **"Authenticity guarantees" always "1a goods and Top quality"**

For more information:

[Latest Results Asteroid TC3:](#)

[http://en.wikipedia.org/wiki/2008\\_TC3](http://en.wikipedia.org/wiki/2008_TC3)

<http://www.cosm.unvienna.org/pdf/pres/stac2009/tech-25.pdf>

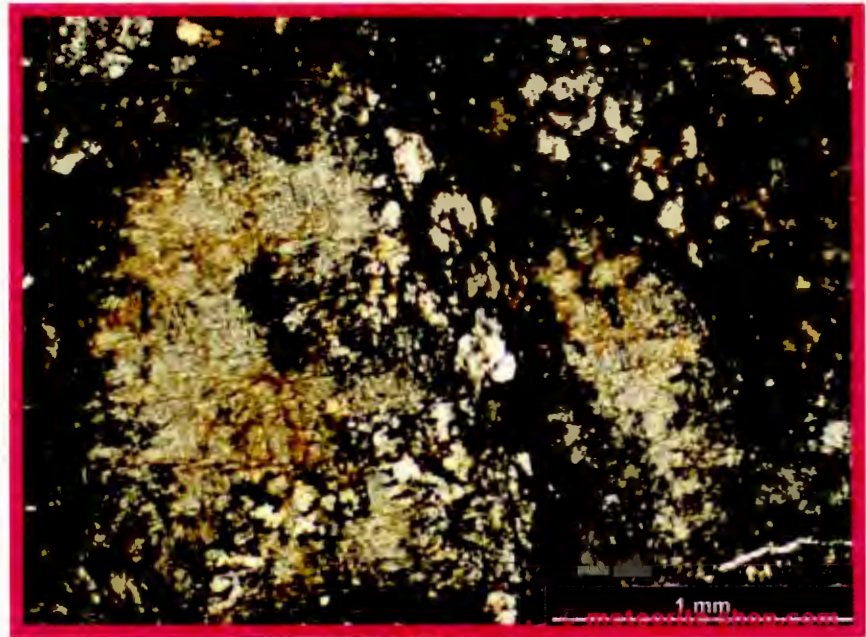
<http://www.newscientist.com/article/dn16635-first-tracked-space-rock-recovered-after-impact>







Almahata Sitta Individual  
 size: 3.36 x 2.15 x 1.54  
 weight: 15.40gr.



Enlarged picture with a



polarizing microscope

**Description:**

Here I offer a **ultra rarely** part slice of the **"Forecasting Witness Fall"**, **Chondritic breccia EL chondrite**  
**"Unique date in the history of meteorites" and "Debris from asteroid 2008 TC3"!**

**The first meteorite that was observed already in space!**

Scientists calculated that the asteroid landed in the south of Sudan. Finally, he ended up even in the Almahata Sitta, in southern Sudan, in the desert. **A success for the science!**

**A great asset for any collection!**

Almahata Sitta-Asteroid 2008 TC3 is **very hard** to get on the Meteorite-Market.

The first "Forecasting Witness Fall" of the world.

Almahata Sitta TC3 contains heterogenes Material

**The current market value is around \$1500-2000 a gram.**

**Almahata Sitta Asteroid 2008 TC3:**

*Classification on Planetary Science by Prof. Addi Bischoff, in the University in Münster, Germany.*

**The classification for this Almahata Sitta Individual has showed:**

Sample MS-MU-003 is an EL chondritic breccia and has chondrules with a diameter of 200-500 microns (see below). In addition to metals (Kamacite with about 1.7 wt% Si) are the sulfides troilite, and oldhamite Keilit ago.

The Almahata EL Chondrite has a size of: **1.43 x 1.05 x 0.22 cm** and a weight of: **0.630gr.**

Delivery is made in an original collector's box, dimensions: **2.80 x 2.80 cm**

**NEW**

**Almahata Sitta**

**-Asteroid 2008 TC3-**

**"Forecasting Witness Fall"**

7 October 2008, 05:46 h local time (UT+3)

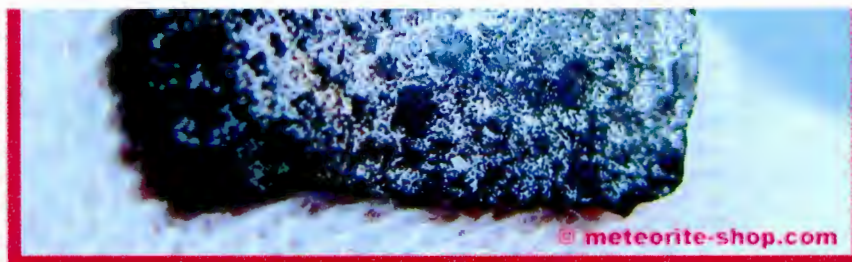
**~ ultra rarely ~**



Almahata Sitta  
 - Asteroid 2008 TC3-  
 Chondritic breccia  
 fine thin part slice  
 ~ultra rarely~







Almahata Sitta  
 - Asteroid 2008 TC3-  
 EL Chondrite  
 with fusion crust

size of: 1.43 x 1.05 x 0.22 cm  
 weight of: 0.630gr.

Unique date in the history of meteorites!  
 debris from Asteroid 2008 TC3!  
 "ultra rarely special meteorite material  
 one meteorite for science!"

A great chance to add this very  
 hard to find item to your  
 Meteorite's Collection!  
 A must have for every connoisseur  
 Ready for the collection!

As members of IMCA Inc.  
 (International Meteorite Collectors Association) and  
 Meteoritical Society (International Society for Meteoritics and Planetary Science), we guarantee for the trueness of the description and the  
 authenticity of the offered meteorites.



All our meteorites will have an  
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Campo del Zieio Meteorite Pendant...

[See suggestions](#)



— Beauty stone NWA 859 — 1.2oz iron

[See suggestions](#)



Meteorite: 1891, Canyon Diablo, Arizo...

**\$83.00**

[See suggestions](#)



2.5 lbs. of 400g pieces Natural Raw Rough

[See suggestions](#)



Free Standing Etched GIBEON Meteorite C...

**\$24.99**

[See suggestions](#)

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