



THE KAZAKHSTAN'S  
**MOST ANCIENT  
ARCHITECTURE:**

Geoglyphs

**\*\*\***

*The Album of typical examples  
by Dr. Konstantin I.SAMOILOV,  
Almaty, 2016*

## SUMMARY

**Geoglyphs in the Kostanay region were opened in 2007 by Dmitriy Dey.** Currently it is (supposedly) the oldest architectural monuments on the territory of Kazakhstan. Objects have different shapes and sizes.

The greatest attention is attracted to the five objects: the "Turgay triradial fylfot" Hill and other hills Complex near Urpek village (50°06'09.82"N, 65°21'40.90"E) - Overall dimensions: 95m x 95m; the "Ushtogay's Square" hills complex (50°49'58.48"N, 65°19'34.70"E) - Overall dimensions: 387m x 394m; the "Ashtasti's Large cross" hills complex (50°13'39.62"N, 66°17'31.15"E) - Overall dimensions: 431m x 386m; the "Ekedyn's cross" hills complex (49°30'44.68"N, 65°51'44.09"E) - Overall dimensions: 249m x 229m; the "Kogai's cross" hills complex (50°22'31.96"N, 65°27'43.98"E) - Overall dimensions: 280m x 212m.

The Graphical representation of these objects allows to analyze the geometry and the orientation. The most famous Kazakh geoglyphs have interesting geometric features:

- **The Geoglyph "Turgay triradial fylfot" Hill near Urpek village.** Position of the north-eastern brand determines the direction to the Geoglyph "Ashtasti's Large cross" hills complex - distance of 67,925 km. Position of the south-western brand determines the direction to the Geoglyph "Kogai's cross" hills complex - distance of 31,189 km.
- **The Geoglyph "Ashtasti's Large cross" hills Complex.** Position of the western broken line determines the direction to the Geoglyph "Kogai's cross" hills complex - distance of 61,281 km. Its center coincides with the direction of the Geoglyph "Turgay triradial fylfot" hills Complex north-eastern brand - distance of 67.925 km.
- **The Geoglyph "Kogai's cross" hills complex.** Its center coincides with directions on characteristic elements of other two geoglyphs: the western broken line of the "Ashtasti's Large cross" hills Complex - distance of 61,281 km; the south-western brand of the Geoglyph "Turgay triradial fylfot" hills Complex - distance of 31,189 km.

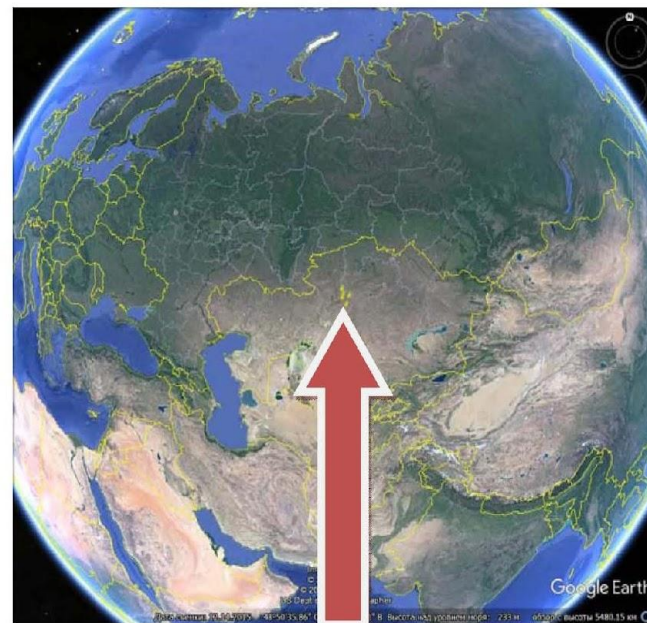
The Author expresses his gratitude to Internet resources – <https://www.google.com> ; <https://www.wikipedia.org> – which to provide the ability to collect an information.

This Album generated for information purposes of the Educational course "The Ancient architecture".

*The front cover:*

*The Geoglyph "Turgay triradial fylfot" Hill – GoogleEarth Images: 09/07/2006 - <http://earth.google.com>*

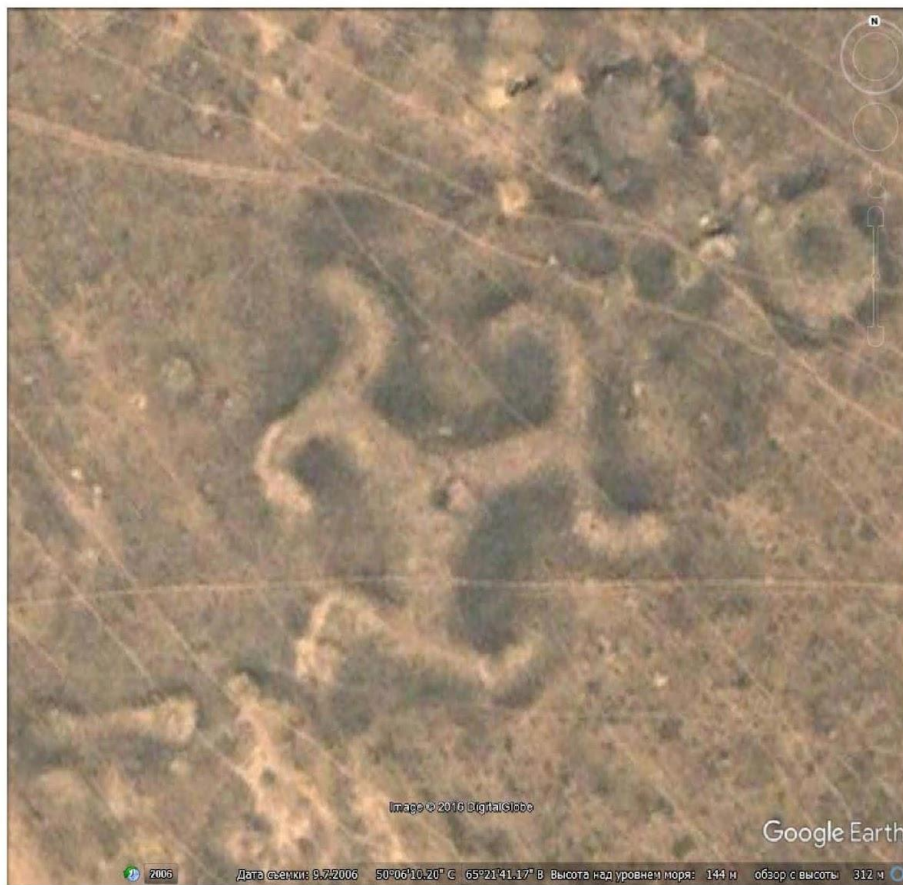
## 1. Most famous Kazakhstan's geoglyphs position ~ **Kostanay Region, Kazakhstan**



This geoglyphs were discovered in 2007 by **Dmitriy Dey**

Sources: GoogleEarth Images - <http://earth.google.com> ; [http://devdi.narod.ru/images/home\\_1\\_00.png](http://devdi.narod.ru/images/home_1_00.png)

## 2. The “Turgay triradial fylfot” Hill near Urpek, Kostanay Region, Kazakhstan (50°06'09.82"N, 65°21'40.90"E)



Overall dimensions: 95m x 95m

Sources: GoogleEarth Images: 09/07/2006 - <http://earth.google.com>

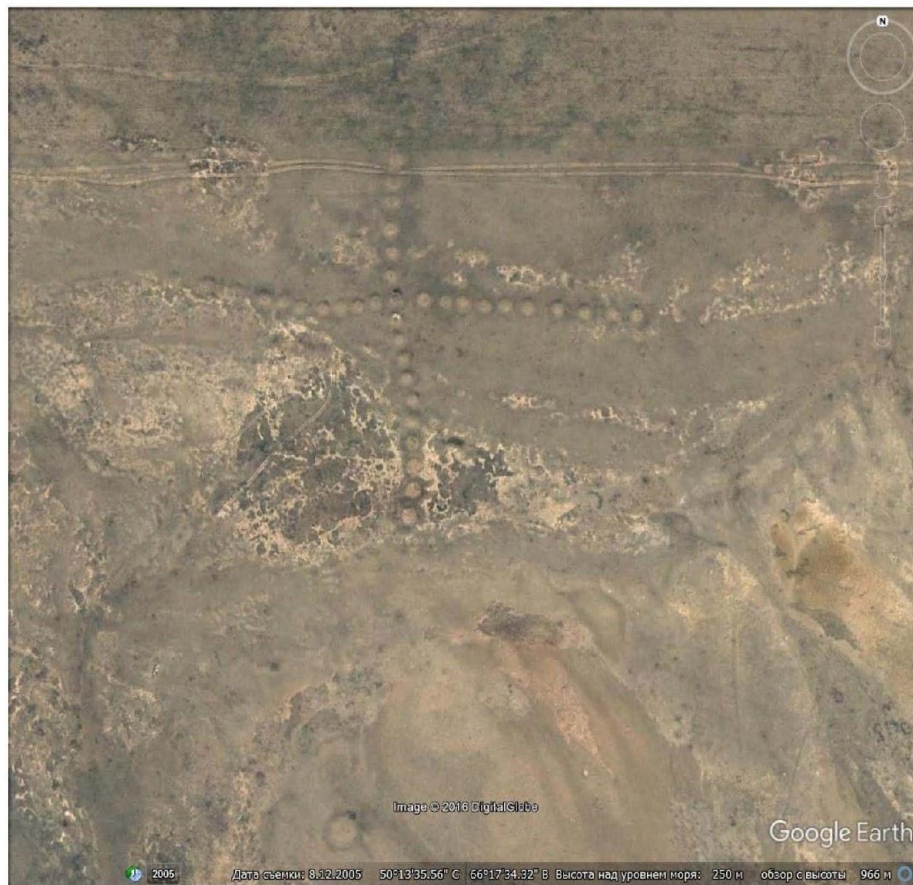
### 3. The “Ushtogay's Square” hills complex, Kostanay Region, Kazakhstan (50°49'58.48"N, 65°19'34.70"E)



Overall dimensions: 387m x 394m

Sources: GoogleEarth Images: 09/07/2006- <http://earth.google.com>

#### 4. The “Ashtasti's Large cross” hills complex, Kostanay Region, Kazakhstan (50°13'39.62"N, 66°17'31.15"E)



Overall dimensions: 431m x 386m

Sources: GoogleEarth Images: 08/12/2005 - <http://earth.google.com>

## THE KAZAKHSTAN'S MOST ANCIENT ARCHITECTURE: Geoglyphs

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### 5. The “Ekedyn's cross” hills complex, Kostanay Region, Kazakhstan (49°30'44.68"N, 65°51'44.09"E)



Overall dimensions: 249m x 229m

Sources: GoogleEarth Images: 04/28/2004 - <http://earth.google.com>

## 6. The “Kogai’s cross” hills complex, Kostanay Region, Kazakhstan (50°22'31.96"N, 65°27'43.98"E)



Overall dimensions: 280m x 212m



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## 7. Configuration features of Turgay's geoglyphs (Kostanay Region, Kazakhstan)

### The "Ashtasti's Large cross" hills Complex

~ 50°13'39.62"N  
~ 66°17'31.15"E



Image source:  
Drawings by Dr. Konstantin I.Samoilov - October, 2016

### The "Ekedyn's cross" hills Complex

~ 49°30'44.68"N  
~ 65°51'44.09"E



Image source:  
Drawings by Dr. Konstantin I.Samoilov - October, 2016

### The "Kogai's cross" hills Complex

~ 50°22'31.96"N  
~ 65°27'43.98"E



Image source:  
Drawings by Dr. Konstantin I.Samoilov - October, 2016

### The "Ushtogay's Square" hills Complex

~ 50°49'58.48"N  
~ 65°19'34.70"E



Image source:  
Drawings by Dr. Konstantin I.Samoilov - October, 2016

### The "Turgay triradial flyfot" Hill and other hills Complex

~ 50°06'09.82"N  
~ 65°21'40.90"E



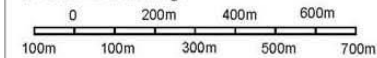
Image source:  
Drawings by Dr. Konstantin I.Samoilov - October, 2016



Drawings are based  
on Google Earth pictures  
- <http://earth.google.com>

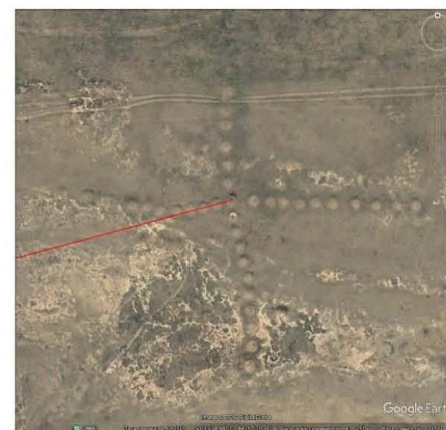
The relief specificity and modern roads  
are not shown (conditionally)

The Scale of all drawings



Sources: Drawing by Konstantin I.Samoilov, 2016; [https://commons.wikimedia.org/wiki/File:Kazakhstan%27s\\_ancient\\_geoglyphs\\_schemes.jpg](https://commons.wikimedia.org/wiki/File:Kazakhstan%27s_ancient_geoglyphs_schemes.jpg)

**8. The Geometric feature ~ The direction from the “Turgay triradial fylfot” Hill to the “Ashtasti's Large cross” hills complex: 77,81°; 67925 m (Kostanay Region, Kazakhstan)**



Sources: GoogleEarth Images: 09/07/2006; 08/12/2005 - <http://earth.google.com> ; measurements by Konstantin I.Samoilov, 2016

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### 9. The Geometric feature ~ The direction from the "Turgay triradial fylfot" Hill to the "Kogai's cross" hills complex: 13,26°; 31189 m (Kostanay Region, Kazakhstan)



Sources: GoogleEarth Images: 09/07/2006 ; 08/12/2005 - <http://earth.google.com> ; measurements by Konstantin I.Samoilov, 2016

## THE KAZAKHSTAN'S MOST ANCIENT ARCHITECTURE: Geoglyphs

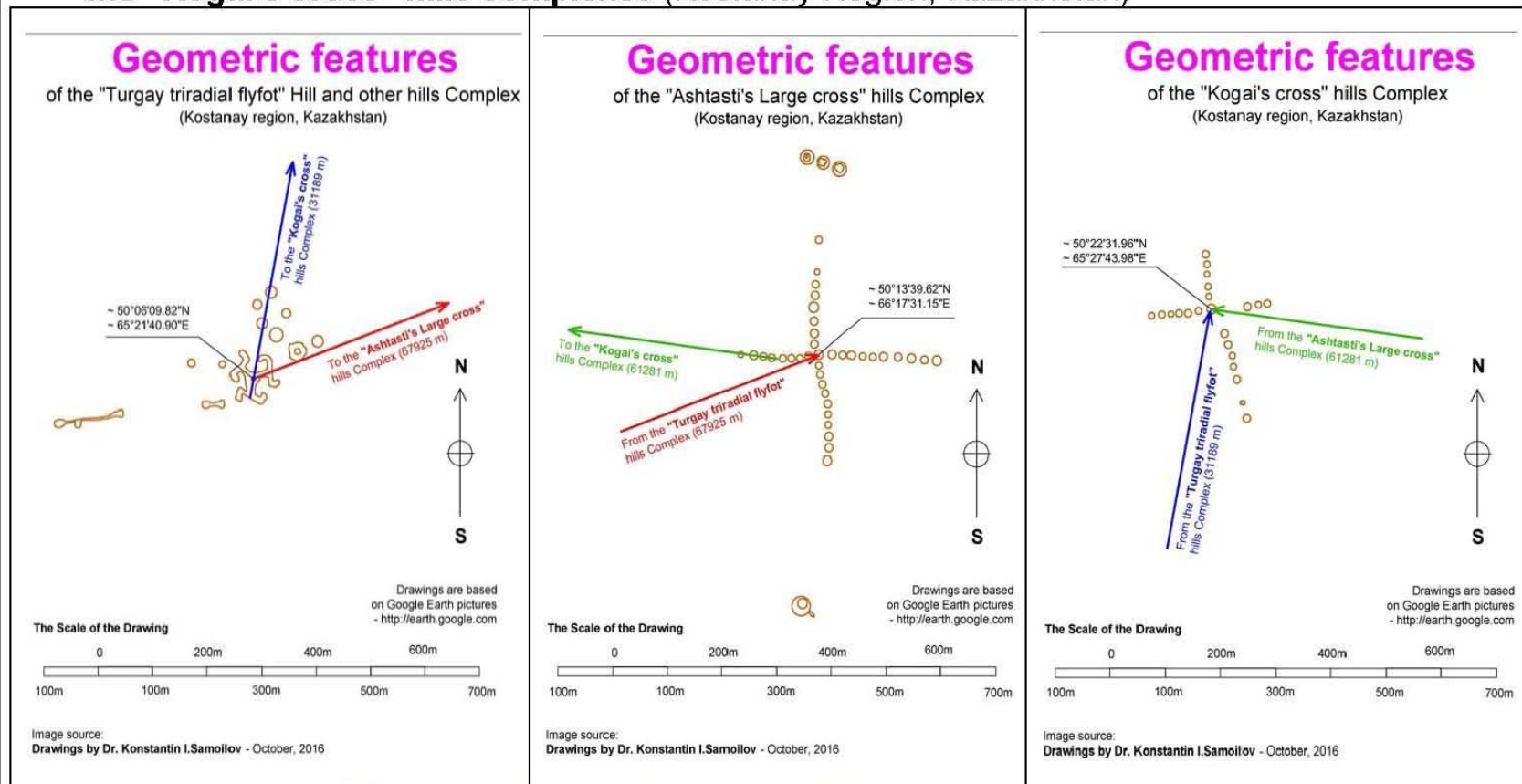
The Album of typical examples by Dr. Konstantin I.SAMOILOV, Almaty, 2016

### 10. The Geometric feature ~ The direction from the “Ashtasti’s Large cross” hills complex to the “Kogai’s cross” hills complex: 285,93°; 61281 m (Kostanay Region, Kazakhstan)



Sources: GoogleEarth Images: 05/09/2012; 08/12/2005 - <http://earth.google.com> ; measurements by Konstantin I.Samoilov, 2016

# 11. Geometric features of the "Turgay triradial fylfot", the "Ashtasti's Large cross" and the "Kogai's cross" hills complexes (Kostanay Region, Kazakhstan)



Sources: [https://commons.wikimedia.org/wiki/File:The\\_Kazakhstan%27s\\_geoglyph\\_%22Turgay\\_triradial\\_fylfot%22\\_hills\\_Complex\\_and\\_its\\_geometric\\_features.jpg](https://commons.wikimedia.org/wiki/File:The_Kazakhstan%27s_geoglyph_%22Turgay_triradial_fylfot%22_hills_Complex_and_its_geometric_features.jpg) ;  
[https://commons.wikimedia.org/wiki/File:The\\_Kazakhstan%27s\\_geoglyph\\_%22Ashtasti%27s\\_Large\\_cross%27\\_hills\\_Complex\\_and\\_its\\_geometric\\_features.jpg](https://commons.wikimedia.org/wiki/File:The_Kazakhstan%27s_geoglyph_%22Ashtasti%27s_Large_cross%27_hills_Complex_and_its_geometric_features.jpg) ;  
[https://commons.wikimedia.org/wiki/File:The\\_Kazakhstan%27s\\_geoglyph\\_%22Kogai%27s\\_cross%27\\_hills\\_Complex\\_and\\_its\\_geometric\\_features.jpg](https://commons.wikimedia.org/wiki/File:The_Kazakhstan%27s_geoglyph_%22Kogai%27s_cross%27_hills_Complex_and_its_geometric_features.jpg) .

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14. The Kazakhstan's geoglyph "Kogai's cross" hills Complex and its geometric features / From Wikimedia Commons, the free media repository. - [https://commons.wikimedia.org/wiki/File:The\\_Kazakhstan%27s\\_geoglyph\\_%22Kogai%27s\\_cross%22\\_hills\\_Complex\\_and\\_its\\_geometric\\_features.jpg](https://commons.wikimedia.org/wiki/File:The_Kazakhstan%27s_geoglyph_%22Kogai%27s_cross%22_hills_Complex_and_its_geometric_features.jpg)

## Briefly about the Author



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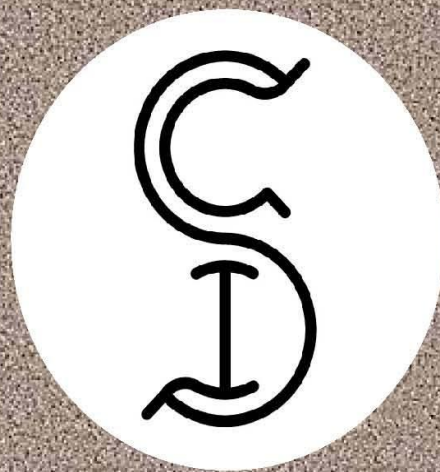
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