

Vatican

Biblioteca Apostolica

 Vat lat 3109
Hyginus, *De astronomia*

Italian

15th century

text
ff. 1r-34v Hyginus, *De astronomia*, Books II and III, with Book III illustrated

ff. 2r-31v Sed quoniam que nobis de terre positione et dicenda fuerint et speram totam diffinimus – autem omnium corporum deformatiōnem dicere instituimus. (Hyginus, *De astronomia*, II, 1-43, cf. Viré 1992, pp. 14-94)

Following the section on Lyra (fol. 10r ... fecisse et hac re ab his interfectum. (II, 7; cf. Viré 1992, p. 34)), the text jumps to an extract from the so-called *scholia Sangermanensia* describing the mythological origins of Lyra

Regrediente nilo ad suos meatus unde exierat – dicitur modulando. // [fol. 10v] fuisse ut arbores, bestias, saxa atque inferos commovisse putant. (cf. Breysig 1867, pp. 150-51)

This is the same passage from the *scholia Sangermanensia* (cf. Breysig 1867, pp. 150-51) that appears in the text of Vat lat 31110, fol. 12v.

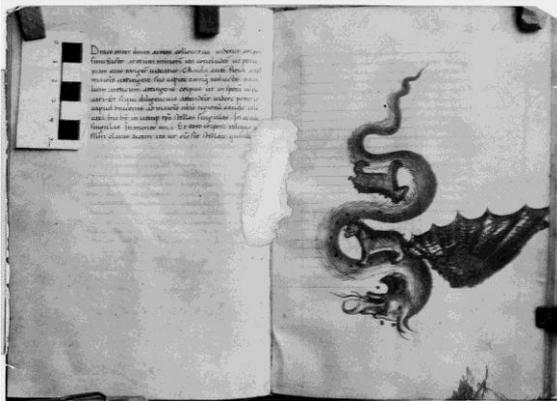
It then returns to the description of Cygnus

Olorem hunc graeci cignum appellant quem complures propter ignotam historiam illis comuni genere avium ornim nominaverunt ... (= Hyginus, *De astronomia*, II, 8; cf. Viré 1992, p. 35).

ff. 32r-34v Igitur incipiemus a polo boreo protinus ... (Hyginus, *De astronomia*, III, 1-7, cf. Viré, 1992, pp. 95-99)

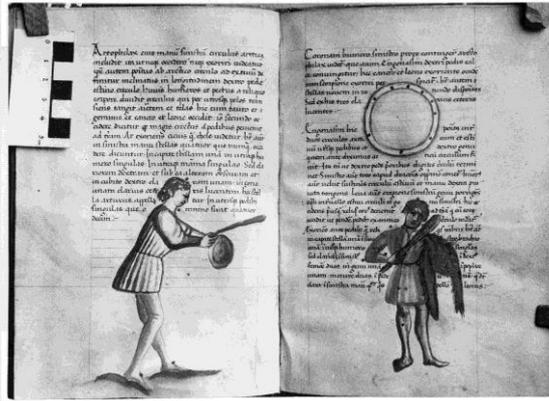
illustrations

SET 1



fol. 32v

fol. 33r



fol. 33v

fol. 34r



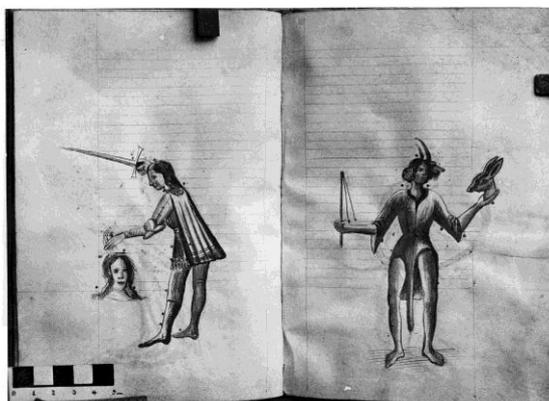
fol. 34v

fol. 35r



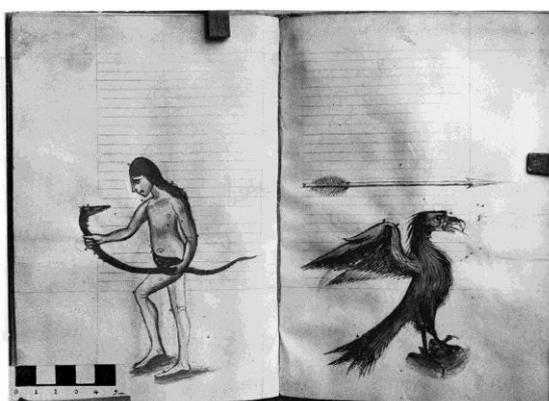
fol. 35v

fol. 36r



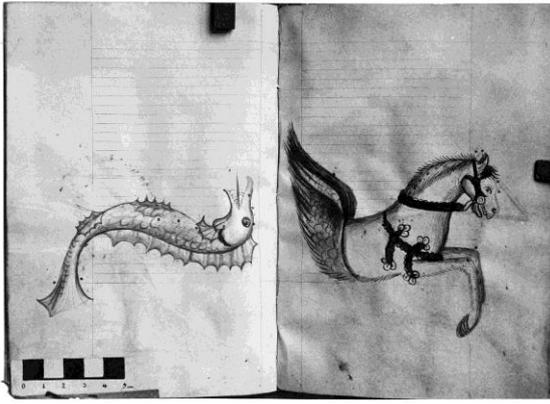
fol. 36v

fol. 37r



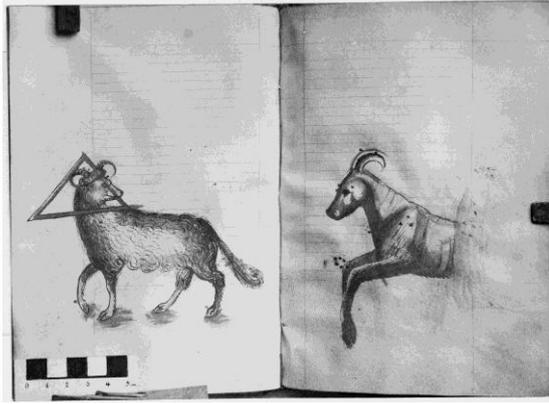
fol. 37v

fol. 38r



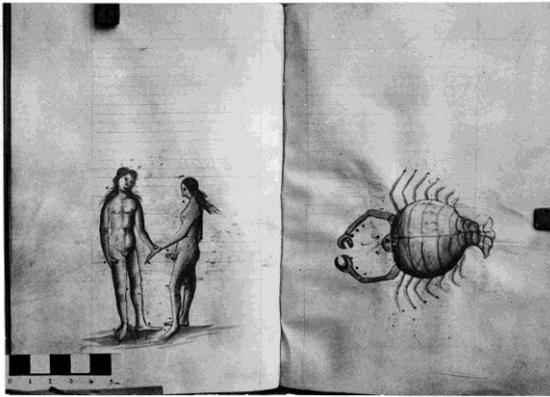
fol. 38v

fol. 39r



fol. 39v

fol. 40r



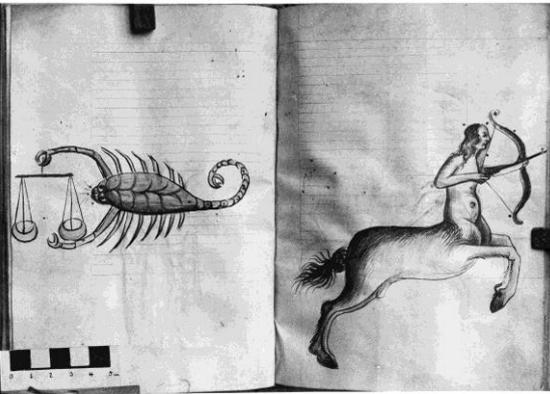
fol. 40v

fol. 41r



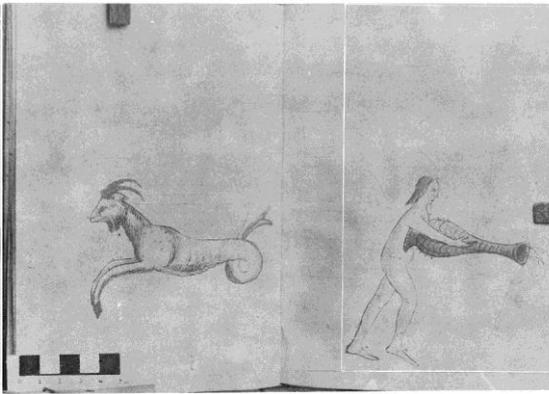
fol. 41v

fol. 42r



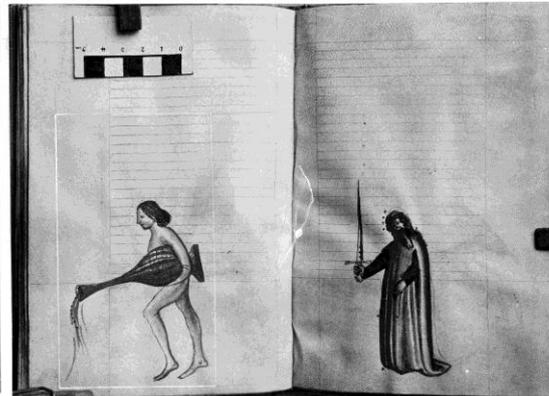
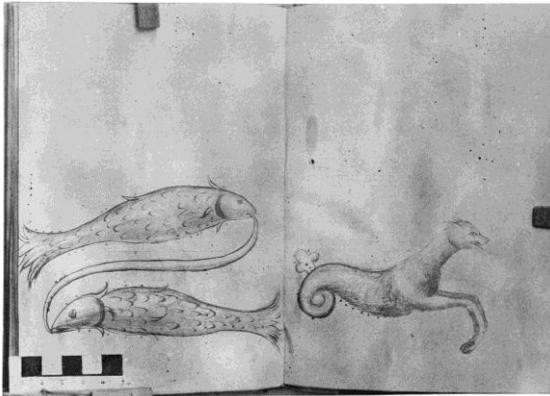
fol. 42v

fol. 43r



fol. 43v

fol. 44r

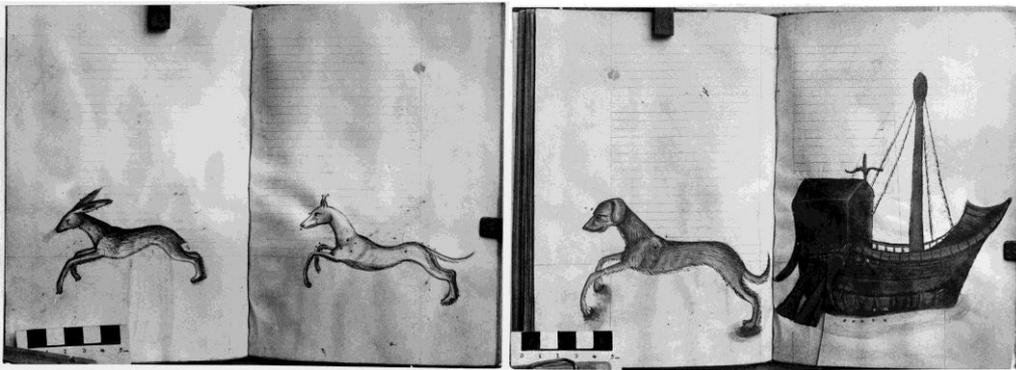


fol. 44v

fol. 45r

fol. 45v

fol. 46r

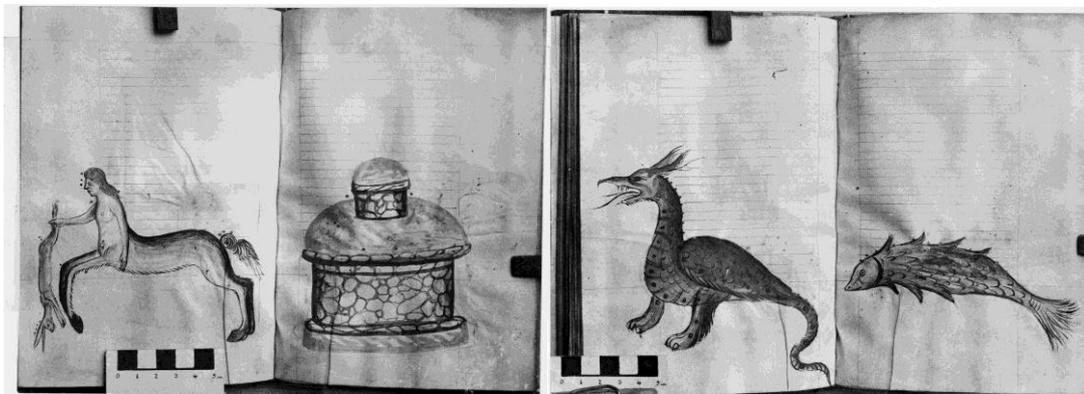


fol. 46v

fol. 47r

fol. 47v

fol. 48r



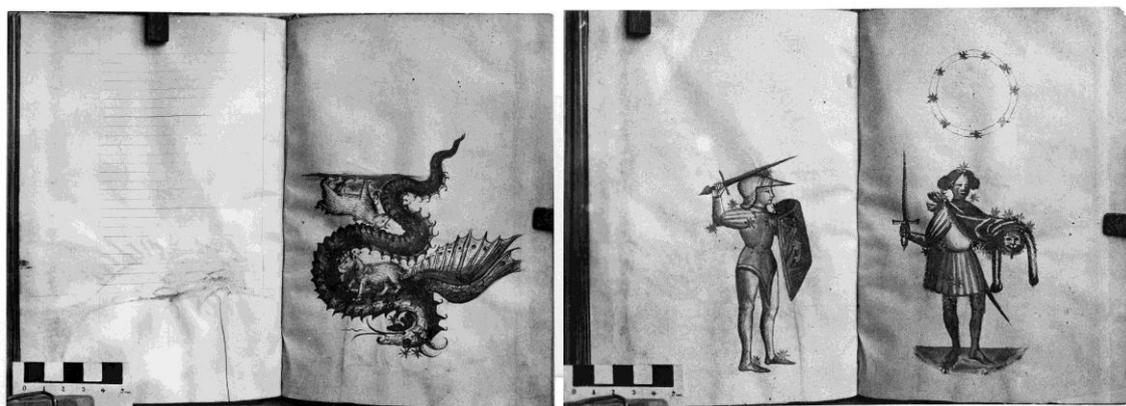
fol. 48v

fol. 49r

fol.49v

fol. 50r

SET 2

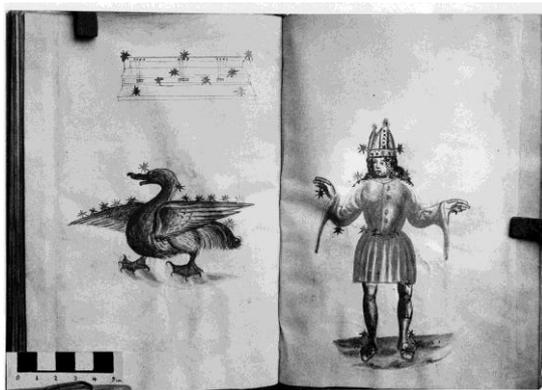


fol. 50v

fol. 51r

fol. 51v

fol. 52r



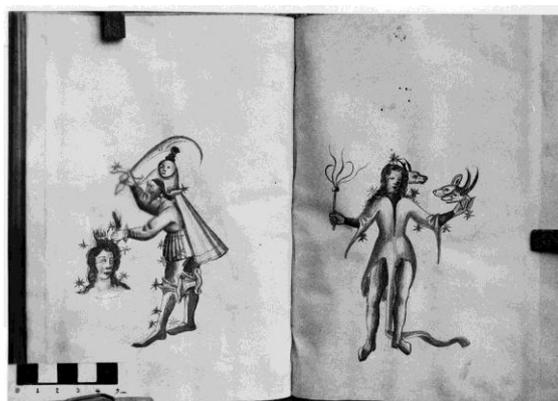
fol. 52v



fol. 53r

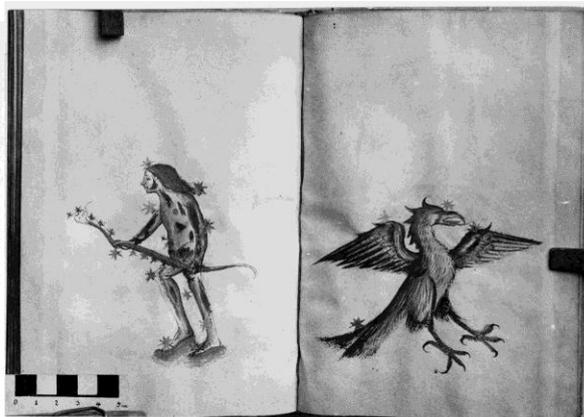
fol. 53v

fol. 54r



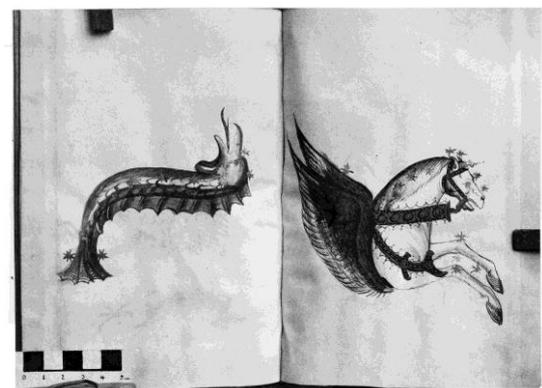
fol. 54v

fol. 55r



fol. 55v

fol. 56r



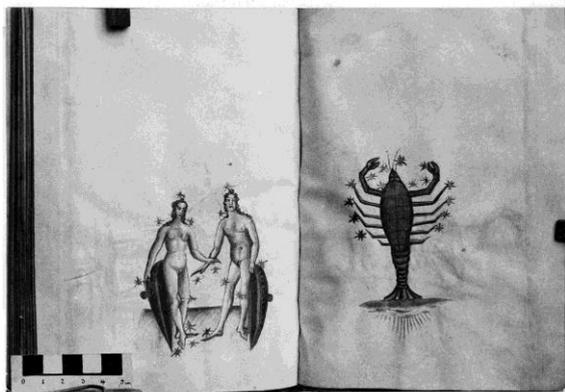
fol. 56v

fol. 57r

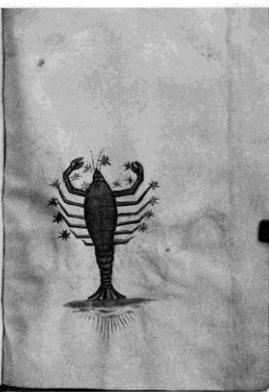


fol. 57v

fol. 58r



fol. 58v

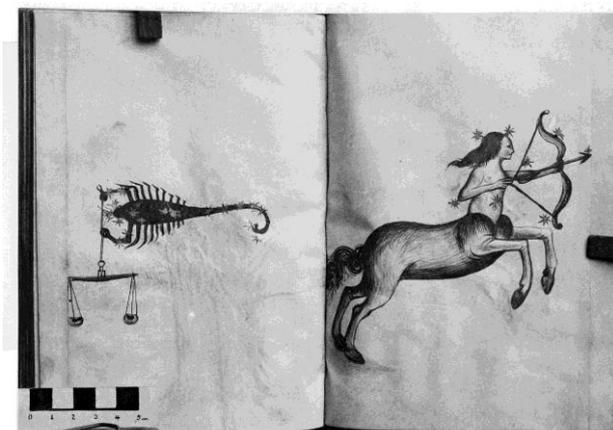


fol. 59r



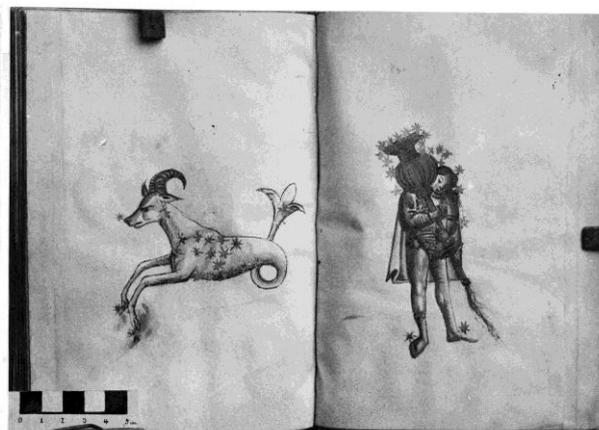
fol. 59v

fol. 60r



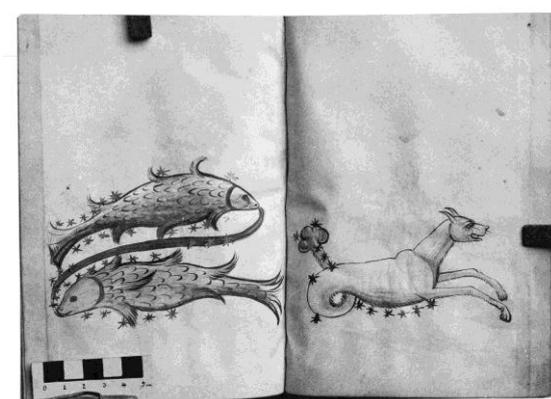
fol. 60v

fol. 61r



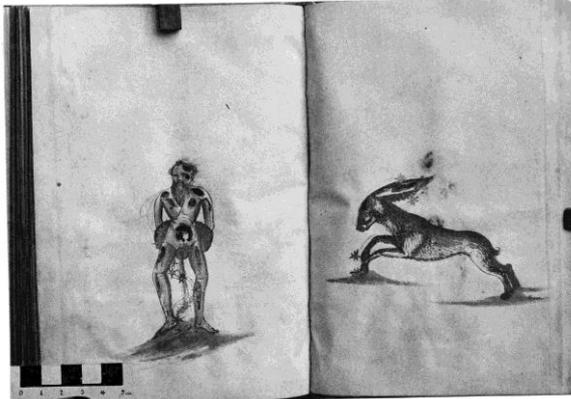
fol. 61v

fol. 62r



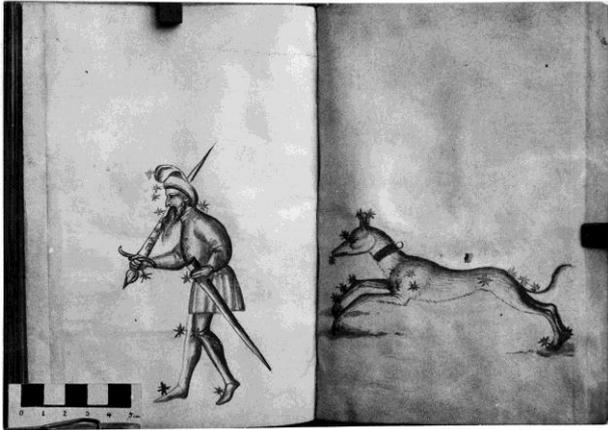
fol. 62v

fol. 63r



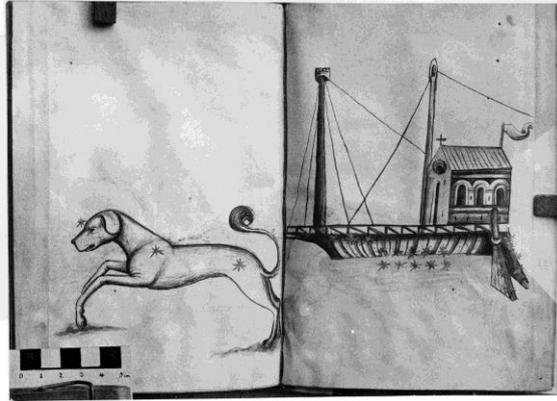
fol. 63v

fol. 64r



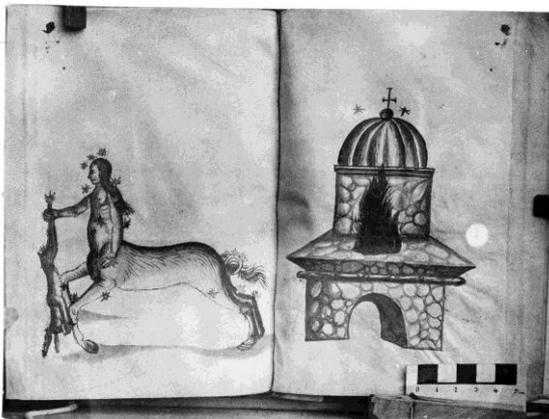
fol. 64v

fol. 65r



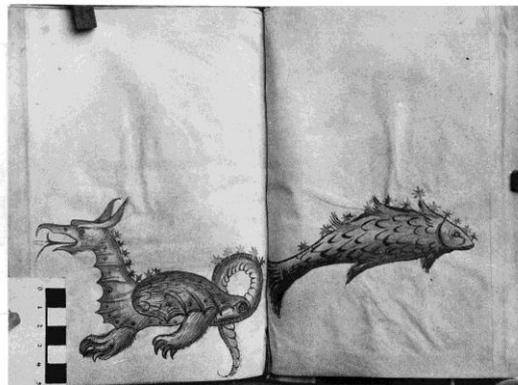
fol. 65v

fol. 66r



fol. 66v

fol. 67r



fol. 67v

fol. 68r

ff. 33r-50r

A set of highly-coloured illustrations of 37 constellation groupings with stars marked. Some seem to have been done at quite a speed as the colours are muddied from not having been allowed to dry. Stars are marked by red dots.

ff. 51r-68r

A second set of illustrations of 36 constellation groupings, which are quite close to the first. These have been drawn on to the pages in anticipation of the text, but tend to occupy increasing amounts of space as the pages progress, so that, in some cases, there might not have been sufficient room to include the text. Stars marked by red star-shaped marks. There is no depiction of SAGITTA. CORVUS and CRATER are missing and there are no stars shown for CORONA AUSTRINUS.

SET 1

fol. 33r *DRACO INTER ARCTOS* shows **DRACO** with his head towards the bottom of the page. He has a dragon's head with a curved beak and his red tongue is sticking out and he has a red and yellow waddle. His green and pink body has 3 main curves with 3 smaller curves at the end of the tail. He has large, yellow, red and brown bat wings extending behind him. He has 3 stars in his head, 1 in his chin and 11 in his body, or 15 stars in all. The Bears are about the same size and are coloured grey. They are placed back-to-back facing into the body of the snake.

URSA MINOR is closer to the head of the serpent and has a mass of stars in its head and 3 on its tail.

URSA MAIOR has 7 stars along the top of its body.

fol. 33v **BOOTES** (*Arctophilax*) faces to the right and is dressed in a short red tunic with blue tights. He holds both of his hands out in front of him and seems to clasp a small, round blue shield and a yellow club in both. He has 1 (?) star in his head, 2 in his neck, 1 in his shoulder, 1 in his right elbow, 3 on his shield and 1 on each foot, or at least 10 stars.

fol. 34r **CORONA BOREALIS** consists of 2 concentric circles in pink with 9 stars.

HERCULES stands facing the viewer, dressed in a short blue tunic with pink highlights and with pink tights. He inclines his blonde-haired head slightly to the right and holds a red and brown club in his right hand so that it lies diagonally in front of his body and holds a furry skin with a face on it (resembling a yeti) over his left shoulder and arm. He has 1 star in his head, 1 in his right shoulder, 1 in his club, 1 in his right elbow, 1 on his right wrist, 4 on his lion's skin, 2 in his right hip and 3 in his legs, or 14 stars in all.

fol. 34v **LYRA** is lightly drawn in pink as a two-stepped zither with a curl on the right and 3 sets of 4 strings. It has 9 stars.

CYGNUS is standing to the left with his wings raised and his beak open. He has a grey body and yellow feet and beak. It has 5 stars in the right wing, 5 in the left wing, 1 in the head, 1 in the neck and 1 in the tail, or 13 stars in all.

- fol. 35r **CEPHEUS** is standing facing the viewer in a long-sleeved, pink bodice with buttons down the front and a yellow belt. He has a yellow mitre with three bright jewels in it on his head. He holds his arms out to his side with his elbows bent. He has 2 stars in his head, 1 in each shoulder, 1 in the right hand, 1 on his right elbow, 1 in his left hand, 3 in his belt and 3 in each foot, or 16 stars in all.
- fol. 35v **CASSIOPEIA** is seated on a boxy throne, facing the viewer with her hands out to her sides, but bent at the elbows. She wears a long gown with a green bodice and a pink skirt and a mantle that is blue on the inside and pink on the outside. Her dark blonde hair is exposed. She has 1 in her head, 1 on each shoulder, 1 in her breast, 1 in her lap, 2 on her left knee, 1 on her left shin and 1 on her right foot, or 9 stars in all.
- fol. 36r **ANDROMEDA** is depicted walking to the left, but looking back over her shoulder to the right. She is dressed in a long pink gown and her shoulders are covered by a blue mantle. She holds her skirts in his right hand at her knee, and raises her left hand behind her with its palm facing upwards. Her hair is exposed and she has no attributes. She has 1 in star in her head, 1 in each shoulder, 1 on each elbow, 1 on right hand, 4 in her waist, 3 in her lap, 5 in her legs and 1 on each foot, or 20 stars in all.
- fol. 36v **PERSEUS** is standing to the left with his back to the viewer. He is dressed in a red and orange short tunic and short cape and blue-grey armour underneath with leggings that are yellow to the knee and red below for the left leg and the right leg is blue. His head is bare. He holds the blonde-haired Medusa's head out in front of him with his left hand and holds a straight sword out in front of him with his right hand. He has 1 star in his sword, 1 in his head, 1 on each shoulder, 4 on his hip, 1 on his left wrist and 1 on his left hand, 4 in Medusa's head, 1 in his left knee, 2 on his left shin, and 1 in his right foot, or 18 stars in all.
- fol. 37r **AURIGA** is dressed in a short blue tunic with a brown neck and a long piece hanging down in the front between his legs. He is bare-legged and without shoes. He stands facing the viewer with a 2-thonged flail raised in his right hand and a goat with curved horns coming out of the left side of his head. He has a two small animal faces (compare AURIGA on fol. 55r) coming from his outstretched left hand. He has 1 star in his head, 1 on each shoulder, 1 on the right elbow and 2 in his left elbow, 2 in the left hand, 2 (?) at his waist and 1 in this thigh, or 9 or 11 stars.

- fol. 37v **OPHIUCHUS** is nude and walks to the left, with **SERPENS** wrapped around his hips and facing towards the man. **OPHIUCHUS** has long blonde hair and the snake is grey. In the man's body there is 1 star on his head, 1 on each shoulder, 1 on his left elbow, 1 on each knee, 1 in the straight leg's shin and 1 on each foot, or 9 stars in all. The **SERPENT** has 2 stars in its head, 3 in its neck, 4 in the upper body and 5 along its tail, or 14 stars in all.
- fol. 38r **SAGITTA** points to the right and has no stars.
- AQUILA** is black, with a yellow beak and feet with pink talons, and stands to the right with his wings outstretched behind him and with his mouth open and his red tongue sticking out. It is marked by 1 star in its beak, 2 in its wings, and 1 in its tail, or 4 stars in all.
- fol. 38v **DELPHINUS** is upside-down, with its dorsal fin towards the bottom of the page, lying with its head to the right. It has pink blue and pink body with red gills. It has a pointed beak and a long red tongue and a waddle under its chin. It has 2 stars in its head, 1 in its gills, 3 in the body and 3 on its tail, or 9 stars in all.
- fol. 39r **PEGASUS** is depicted as half a horse with pink and yellow wings, flying to the right and wearing an elaborate red harness and bridle. Both feet are curled in front of him. It has 2 stars above its ears, 2 on its in face, 5 in its neck, 2 on each knee and 1 in its wings, or 14 stars in all.
- fol. 39v **ARIES** is depicted *intra Triangulum* (no text). He walks to the left and looks backwards over his shoulder to the right. He has a long tail and raises his left forefoot. He is greyish-yellow and the Triangle is yellow. He has 3 stars in the head, 1 in the neck, 5 in the torso, 3 on the flank, 2 in the tail, 1 on the front foot and 1 on the back left hoof, or 16 stars in all. **TRIANGULUM** has 1 star.
- fol. 40r **TAURUS** is depicted as half a yellow-pink bull facing to the left, with his body cut off by blue clouds. He has black horns that curl backward from his face and holds his forelegs at a right angle in front of him. He has 2 stars in its horns, 3 in its head, 6 on his chest and 6 on his knees, or 17 stars in all. In addition, there are 7 stars in front of his knees, representing the **PLEIADES**.
- fol. 40v **GEMINI** are depicted as two nude figures who appear to have originally been female, but a later hand (?) has drawn erect male genitals on the right Twin, so that the gaze of the left Twin meets it directly. The left Twin stands facing the viewer and grabs the left arm of the right Twin with his/her left hand. The right

- Twin stands in profile. They both have blonde hair and no other attributes. The left Twin has 1 star in the head, 1 in each shoulder, 1 in the right hand, 3 in the legs and 1 on each foot, or 9 stars in all. The right Twin has 1 in the head, 1 in the face, 1 in the hair, 1 on the genitals, 1 on each knee, 1 on each foot and 1 on the ground in front of his/her foot (Propus), or 9 stars in all.
- fol. 41r **Cancer** looks like a bloated grey crayfish with a very round body. It has two large front claws that face to the left and 7 legs on each side. It has 3 stars in each claw, 2 in its face, 4 on the right legs and 4 in the bottom legs, or 16 stars in all.
- fol. 41v **LEO** walks to the right and has his left forepaw raised and holds his tail up. He is yellow-brown and has 4 stars in the head, 5 on the body, 1 in the right forefoot, 5 in the haunches, 1 in the right back foot and 2 in his tail, or 18 stars in all.
- fol. 42r **VIRGO** stands facing the viewer and has red-orange wings that are raised to either side. She has no attributes, but raises both her hands to chest height. She has a long blue robe with a black neck band and a green mantle with a grey tartan inner side. Her blonde hair is uncovered. She has 1 star in her head, 1 in each shoulder, 1 in each hand, 2 in her right wing and 2 in each wing, 6 in her body, 1 on each foot and 1 on her elbow, or 18 stars in all.
- fol. 42v **SCORPIO** faces to the left and has two large claws and 6 legs on the right and 7 on the left side. It has a segmented tail that ends in pincers. It holds the blue-panned Scales in his right claw in front of its face. It is marked by 4 stars in the claws, 3 in the mouth, 2 in the back, 6 in the tail segments and 2 at the tip of the tail, or 17 stars in all. The SCALES have no stars.
- fol. 43r **SAGITTARIUS** leaps to the right and holds a bow and arrow in front of him, pulling the string with his right hand. His human half is nude and he has yellow hair. He has 2 stars in the head, 1 in the string of his bow, 3 in the bow, 1 in the arrow, 1 in the right elbow and 1 in the chest, or 9 stars in all.
- fol. 43v **CAPRICORN** faces to the left with a curl in its tails and slightly curved horns. It has 1 star on the nose, 1 on its cheek, 9 on the shoulder and 5 on the belly, or 16 stars in all.
- fol. 44r **AQUARIUS** is a nude youth, who stands to the right in profile. He holds his yellow urn out horizontally and a small splash of water issues from its mouth horizontally. He has 1 star in his head, 1 on his chin, 4 on his chest, 5 stars in his

body, 1 in his left knee and 1 on his right shin and 1 on each foot, or 15 stars in all. In addition, there are 4 stars on top of the urn, 4 in the middle and 4 on the bottom, or 27 stars together.

- fol. 44v **PISCES** are two fish swimming in opposite directions with both their backs facing upwards. They have green bodies and blue backs with red eyes and red gills. They are connected at the mouth by a stream. There are 17 stars in the top fish, 6 in the cord and 11 on the bottom fish, or 34 stars in all.
- fol. 45r **CETUS** is a dog-faced creature with dog's paws, and a curled tail that ends in a trefoil. It has a grey body and a red tongue sticking out. It has 6 stars in his belly and 2 mid-tail and 5 in his tail, or 13 stars in all.
- fol. 45v **ERIDANUS** is almost exactly the inverse of Aquarius as a nude male youth facing to the left, with his yellow urn held out horizontally in front of him. There are 3 stars in his urn and 7(?) in the water, or 10 stars in all.
- fol. 46r **ORION** stands facing the viewer dressed in a long pink robe that changes to blue toward his back and looking somewhat like a depiction of St Paul. He is an older, bearded man, holding a sword out vertically in his right hand. His left hand rests in front of his body and his left green sleeve emerge from an opening in his robe. He has 4 stars in his head, 1 in his left shoulder, 3 in the sword, 4 at his waist, 1 in each knee and 1 in each foot, or 16 stars in all.
- fol. 46v **LEPUS** runs to the left. It has 2 stars in its ears, 2 in the body and 2 on its feet, or 6 stars in all.
- fol. 47r **CANIS MAIOR** is a sleek greyhound that runs to the left. It has 2 stars in its ears, 1 in its eye, 1 on nose, 3 on its right front knee, 4 in the body, 1 in the haunch, 3 in the tail and 2 on its hind feet, or 17 stars in all.
- fol. 47v **CANIS MINOR** has a hound's face and runs to the left with red clouds at his feet. It has 1 star on his head and 2 in his body, or 3 stars in all.
- fol. 48r **ARGO** is depicted as a full ship sailing to the right with a small red cabin on the deck with a red and yellow *fleur-de-lis* on its front, a yellow mast with rigging, a yellow-balustraded deck, and 2 large steering oars. It has 4 stars on the ship, 10 on the oars, 5 on the keel and 5 in the water, or 24 stars in all.

- fol. 48v **CENTAURUS** is a centaur whose human part is nude and rushes to the left. It has no attributes other than **LUPUS** (a hare) being held in the centaur's outstretched left hand. He has 3 stars in his head, 1 on each shoulder, 2 in belly, 2 in front knees, 1 on his hand, 2 on the haunch and 3 in tail, or 15 stars in all. **LUPUS** has 2 in its legs and 4 in its ears, or 6 stars in all.
- fol. 49r **ARA** is red and blue stone round stone construction that has flames coming out of the top. It has 4 stars.
- fol. 49v **HYDRA** IS a 2-legged green dragon with red dots on its body, standing to the left with its wings folded close to its body. It has a beaky face, long tufted ears (with flames coming out of them) and a red tongue sticking out. There is no depiction of **CORVUS** or **CRATER**. It has 8 stars in its neck, 1 in the wing, 5 in the tail, or 14 stars in all.
- fol. 50r **PISCIS AUSTRINUS** is a grey fish with red gills, swimming to the left. It has 11 stars.

SET 2

- fol. 51r **DRACO INTER ARCTOS** shows **DRACO** with his head towards the bottom of the page. He has a dragon's head with a curved beak and his red tongue sticking out and a red eyes, wattle and chest. His green body has 3 main curves with 3 smaller curves at the end of the tail. He has large, green bat-wings extending behind him and a yellow spine. He has 14 stars. The bears are about the same size and are coloured grey. They are placed back-to-back facing into the body of the snake.

URSA MINOR is closer to the head of the serpent and has 7 stars in its head and a blob on its tail.

URSA MAIOR has 2 stars in head, 2 in the neck and 3 on the rump, or 7 stars in all.

note: the stars belonging to **URSA MINOR** (7 in al) have been placed in **URSA MAIOR** and *vice versa*.

- fol. 51v **BOOTES** (Arctophilax) faces to the right and is dressed in a full suit of bluish armour. He holds a rectangular yellow shield in front of him with his left arm

and raises a straight sword above his head with his right arm. His leggings are pink. He has 1 star in his head, 1 on each shoulder, 1 in his right elbow, 2 in his chest, 1 in his waist, 4 on his shield and 1 on each foot, or 13 stars in all.

fol. 52r

CORONA BOREALIS is depicted as 2 concentric circles in pink with 9 stars marked.

HERCULES stands facing the viewer, dressed in a short blue tunic with pink highlights and with pink tights. He has fluffy hair and holds a straight red sword vertically in his right hand. He holds a lion's skin over his left shoulder and arm (the face of the lion visible and the back legs of the beast tied in a knot around his neck). His right leg has a green stocking and the one on his left is blue. He has 1 star in his head, 1 on each shoulder, 2 in his arms, 4 on his lion's skin, 2 in his hip, 3 in his legs and 1 on his foot, or 15 stars in all.

fol. 52v

LYRA is lightly drawn in pink as a two-stepped zither, with a curl on the right side and 3 sets of 4 strings. It has 9 stars. **Cygnus** is standing to the left with his wings raised and his lumpy beak open. He has a red and blue-grey body and yellow feet and beak. It has 1 star in his head, 1 in the neck, 5 in the right wing, 5 in the left wing and 1 in its tail, or 13 stars in all.

fol. 53r

CEPHEUS is standing facing the viewer in a long-sleeved, blue and pink tunic with buttons down the front. The sleeves of the tunic end in bell-shapes He has a yellow mitre with three red and green jewels in it on his head. His left leg has a yellow and white stocking and the right one has a red one. He holds his arms out to his side with his elbows bent. He has 2 stars in his hat, 1 in each shoulder, 1 in each hand, 1 on his right elbow, 2 on his left leg, 3 in his belt and 3 on each foot, or 18 stars in all.

fol. 53v

CASSIOPEIA is seated on a boxy throne, facing the viewer with her hands out to her sides, but bent at the elbows. She turns the back of her right hand (almost as if making an obscene 'two fingers' gesture). She wears a long blue gown and a mantle that is blue on the inside and green on the outside. Her dark blonde hair is exposed. She has 1 star in her head, 1 in each shoulder, 1 in her right breast, 3 on her left leg, 3 on the throne and 1 on each foot, or 12 stars in all.

fol. 54r

ANDROMEDA is depicted standing to the right. She is dressed in a very long pink gown that gathers around her feet and has a yellow band at the neck and at the feet. She holds her left hand out in front of her in a welcoming gesture and holds her right hand near her waist. Her fluffy hair is exposed and she has no

attributes. She has 1 in star in her head, 1 in each shoulder, 4 in her waist, 1 in her belly, 3 on her hips, 1 on each elbow, 1 on each hand, 4 in her legs and 1 below each foot, or 21 stars in all.

- fol. 54v **PERSEUS** is standing to the left in profile. He has a pink jerkin with long sleeves and a pleated skirt and wears a short blue cape and blue gloves. On his legs, he wears yellow armour with blue knee-pads and, on his head, he has a blue helmet that is crested with a pink-faced figure with a yellow fist on its head (like a caricature of a Chinese Mandarin with a top knot). He holds the blonde-haired Medusa's head outstretched in front of him with his left hand and holds a large, curved sword above his head with his right hand. He has 1 star close to his right hand and his sword, 1 in his head, 1 on each shoulder, 4 on his hip, 1 on his right knee, 2 on his left shin, 1 on his right foot and 5 in the Medusa head, or 17 stars in all.
- fol. 55r **AURIGA** is dressed in a short green tunic with a yellow inner lining and a red edge around the neck with a long piece hanging down in the front between his legs and two large hanging bell-shaped sleeves. He wears pink-orange stockings. He stands facing the viewer with a 5-thonged flail in his right hand and goat with curved horns coming out of the left side of his head and two small animal heads (one with ears and the other with horns) emerging from his outstretched left hand. He has 1 star in his head, 1 on each shoulder, 1 on his right elbow and 3 on his left arm, or 7 stars in all.
- fol. 55v **OPHIUCHUS** is a nude youth of indeterminate sex, who walks to the left, with **SERPENS** lying fairly flat and wrapped around the figure's hips. Its head turns so that it looks upwards, rather than at the figure. **OPHIUCHUS** has long blonde hair and the snake is grey. It seems to be smeared with dirt. In the figure's body there is 1 star on the head, 1 on each shoulder, 1 on the waist, 2 on each elbow, 1 on each knee, 1 on the right shin and 1 on each foot, or 11 stars in all. The **SERPENT** has 2 stars in its head, 3 in its neck, 4 in the upper body and 3 along its tail, or 12 stars in all.
- fol. 56r **AQUILA** is black, with a yellow beak and feet and his red tongue sticking out. He stands to the right with his wings outstretched on either side and with his mouth open. It has 1 star in its beak, 2 in its wings and 1 in its tail, or 4 stars in all.
- fol. 56v **DELPHINUS** is upside-down, with its dorsal fin towards the bottom of the page, lying with its head to the right. It has yellow body with a pink spine and beak and a green crest. It has a pointed beak and a long red tongue and a waddle

under its chin. It has 4 stars in its head, 4 in the body and 2 on its tail, or 10 stars in all.

- fol. 57r **PEGASUS** is depicted as half a horse with yellow wings, flying to the right and wearing an elaborate red and gold harness and bridle. Both feet are curled in front of him. It has 2 stars in its ears, 2 on its in face, 4 in its neck, 4 on its front legs and 1 above its wings, or 13 stars in all.
- fol. 57v **ARIES** is depicted *intra Triangulum* (no text). He walks to the right and looks to the right. He does not look like a ram and there are no horns. He has a long tail and raises his left forefoot. The Triangle is yellow. He has 4 stars in the head, 9 in the body, 1 in the tail, 1 in the left front foot, 1 in the right hind foot, or 16 stars in all. **TRIANGULUM** has 1 star.
- fol. 58r **TAURUS** is depicted as half a yellow-brown bull facing to the left, with his body cut off by blue clouds. He has horns that curl backward from his face and holds his hooves almost at a right angle in front of him. He has 2 stars in his horns, 3 in his face, 3 in his shoulder and 6 in front of his front right knee, or 14 stars in all.
- fol. 58v **GEMINI** are depicted as two long-haired, female nude figures with their genitals highlighted in red. Both stand with red shields leaning upright along their outer legs, holding the tops of the shields with their outer hands. Their inner hands are held downwards and cross at the wrist. They both have blonde hair held by red head bands and no other attributes. The left Twin has 1 star in the head, 1 in each shoulder, 1 in the right hand, 1 in the left hand, 1 on the left knee, 1 on the left ankle and 1 below each foot, or 9 stars in all. The right Twin has 1 star in the head, 1 in the right shoulder, 1 on each hand, 1 in each knee and 1 on each foot, or 8 stars in all.
- fol. 59r **CANCER** is a brown crayfish with yellow rays coming from its tail. It has two large front claws that face to the top of the page and 5 legs on each side. It has 2 stars in front of its head, 5 in the claws and 4 in each set of legs, or 15 stars in all.
- fol. 59v **Leo** walks to the right and has his left forepaw raised and holds his curved tail out behind him. He is yellowish with red highlights and has 5 stars in his head, 6 on his body, 1 in his haunch, 2 in his legs and 1 between his front feet, or 15 stars in all.

- fol. 60r **VIRGO** stands facing the viewer. She has no attributes, but raises both her hands to chest height. She has a long red robe with a yellow inner lining and a blue dress with a yellow hem. Her wings are not coloured and have been drawn very sketchily, so they may be later, but they are raised to either side. Her blonde hair is uncovered and she is marked by 1 star in her head, 1 in each shoulder, 1 in each hand, 2 in her right wing and 2 in her left wing, 1 on her body and 6 on her dress and 1 on each foot, or 18 stars in all.
- fol. 60v **SCORPIO** faces to the left and has two large claws and 8 legs on either side. It has a smooth, curved tail. It holds the Scales with both claws in front of its face. It is marked by 4 in the claws, 3 in the head, 5 in the body and 7 in the tail, or 19 stars in all. The Scales have no stars.
- fol. 61r **SAGITTARIUS** leaps to the right and holds a bow and arrow in front of him, pulling the string with his right hand. His human half is nude and he has yellow hair. He has 2 stars in the head, 1 in the string of his bow, 2 in the bow, 1 on the tip of the bow, 1 in his belly and 1 on his right elbow, or 8 stars in all.
- fol. 61v **CAPRICORN** faces to the left with a curl in its tail, with a trefoil end, and slightly curved horns. It has 1 star on the nose, 1 on its cheek, 10 on the body, 6 on the belly and 2 in the tail, or 20 stars in all.
- fol. 62r **AQUARIUS** is dressed in a short red tunic with a three-quarter-length blue and pink cape and green stockings. He stands slightly to the right holding and upside-down urn so the base rests on his right shoulder and water pours out of the open mouth in front of his left knee. He has 29 stars covering his body and surrounding the base of the urn.
- fol. 62v **Pisces** are two fish swimming in opposite directions with both their backs facing upwards. They have blue bodies with yellow eyes and red gills. They are connected at the mouth by a pink cord. There are 16 stars in the top fish, 9 in the cord and 11 on the bottom fish, or 36 stars in all.
- fol. 63r **CETUS** is a dog-faced creature with dog's paws, and a curled tail that ends in a trefoil. It has a grey body that faces to the right. It has 6 stars in his belly and 2 mid-tail and 5 in his tail, or 13 stars in all.
- fol. 63v **ERIDANUS** stands and faces the viewer and is disposed somewhat like a wind-god with his full sack of water held behind his bottom with both hands and his water

pouring between his legs. He seems to be smeared with brown dirt. There are 13 stars in the stream.

- fol. 64r **LEPUS** runs to the left. It has 2 stars in its ears, 1 in its shoulder, 1 in its haunch and 2 on its feet, or 6 stars in all.
- fol. 64v **ORION** walks to the left, wearing a short red and blue tunic and a floppy red hat. His right stocking is green and his left one is pink. He holds his green scabbard on his left hip with his left hand and holds a long straight sword in front of his chest, with the tip trailing behind his head, in his right hand. He has 4 stars in front of his head, 4 in the sword, 1 in the neck, 4 on his body, 1 in each knee and 1 in each foot, or 17 stars in all.
- fol. 65r **CANIS MAIOR** is a sleek, yellow-brown greyhound that runs to the left. It has 1 star in each ear, 1 in its shoulder, 2 in its face, 3 on its forelegs, 4 in its body, 1 in the haunch, 3 in the tail and 2 on its hind feet, or 18 stars in all.
- fol. 65v **CANIS MINOR** has a hound's face and runs to the left with clouds at his feet. It has 1 star on his head, 1 on his shoulder and 1 on its haunch, or 3 stars in all.
- fol. 66r **ARGO** is depicted as a full ship sailing to the left with a small red church on the deck with three arched windows or arcades and a large front door with an oculus over it and a green roof. The building has a cross on the front and a flag streaming from its back. There is a rear mast that is shaped like a sewing needle and is threaded with a rope and a foremast with rigging and a crow's nest on top. There is a balustrade along the deck and two large steering oars. It has 3 stars on the ship, 9 on the oars, 5 on the keel and 5 in the water, or 22 stars in all.
- fol. 66v **CENTAURUS** is a centaur whose human part is nude and rushes to the left. It has no attributes other than **LUPUS** (a hare) being held in the centaur's outstretched left hand. Its human part has long hair, but it appears to be male. He has 3 stars in his head, 1 on each shoulder, 4 in the chest and 1 on the belly, 1 on the right elbow, 1 on the right hand, 2 in the horse's chest, 3 on the forelegs, 3 in the tail and 4 in the hind legs, or 24 stars in all. **LUPUS** has 1 in its legs, 1 on its bottom, 1 in its chest and 4 in the ears, or 7 stars in all.
- fol. 67r **ARA** is a cylindrical pink and blue stone structure with a domed top with a cross on top of it and a flame coming from its bottom level. It has 4 stars.

- fol. 49v **HYDRA** is a 2-legged pink and green dragon, standing to the left with its wings folded close to its body. It has a beaky face, long tufted ears and a red tongue sticking out. There is no depiction of **CORVUS** or **CRATER**. It has 9 stars in its neck and 5 in the tail, or 14 stars in all.
- fol. 50r **PISCIS AUSTRINUS** is a blue fish, swimming to the right with its back towards the top. It has 12 stars.
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notes

bibliography

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