Ancient Monuments Laboratory Report 25/97

WALL PAINTING CONDITION AUDIT, LONGTHORPE TOWER, CAMBRIDGESHIRE

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J Davies T Manning

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Summary

This condition audit of wall paintings at Longthorpe Tower includes a wall painting record, general audit information, documentation of original materials and execution of the painting, and deterioration and damage including previously used materials and treatment, as well as proposals for treatment and monitoring strategies.

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1 Wall Painting Record

Property name	LONGTHO	RPE TOWER			
Region	Midlands		County	Cambridge	shire
Location of painting	Great Char	nber			
Orientation	EAST WAL	L INCLUDING VAULT			
Century 14th	Date	1320	Height (cn	n) 520	Width (cm) 458
Subjects included					
Figurative					
Four evangelists					
Musicians					
Three Living and Three	Dead				
Wheel of the Five Sens	es				

Description

The tower at Longthorpe is the only substantial survival of a fortified manor house owned by the de Thorpe family. In 1226 William de Thorpe was confirmed in his landholding by the Abbot of Peterborough. Sir William de Thorpe, his son, obtained permission in 1263-64 from Robert, Abbot of Peterborough, to rebuild the parochial chapel of St. Botolph at Thorpe, which survives nearby. It is likely that the tower was built at the same time by Sir William de Thorpe, as many architectural details correspond to the church.

The son of Sir William, Robert de Thorpe, was appointed Steward of the Abbey in 1310-11, a post which he held until 1329. He was released from villein service in 1323-4. His son, also Robert, was appointed Steward in 1330 and still held Thorpe in 1346. Either could be responsible for commissioning the paintings.

The Thorpe estates passed into the family of Wyttilbury of Milton and Marholm when, in 1391, John Wyttilbury assumed the arms of William Thorpe. At the end of the 15th century they were acquired by the Fitzwilliams of Milton, and they still belong to their descendant. The tower was placed under the care of the Ministry of Works in 1947.

The house at Longthorpe consists of the original 13th-century north-south wing which probably contained the hall, the 14th-century Great Tower (which houses the paintings), and an east-west wing of the 17th century. The tower retains most of its 14th-century detail, relatively unaltered. The walls are 1.8 to 2.1 metres thick, built almost entirely of small stone rubble. The ground floor houses a vaulted undercroft which is inaccessible from the rest of the tower. The top floor retains a garderobe and the original window-recesses and seats. However, the area of primary concern is the first floor, which houses the Great Chamber, or the lord's private apartment. It is vaulted, and retains an aumbry, various window recesses, two niches, an original fireplace opening, and a small chamber (possibly a garderobe) inserted into the thickness of the wall. The original early 14th-century tower (c.1300) would have only had access from the Great Hall, but later in the 14th century (c.1320-30?) the room was altered for different use: the window on the east wall was blocked and a door was inserted in this area. The arched recess of the north wall (which originally appeared as the west wall does now) was filled in, perhaps for structural reasons. It was after these alterations to the room that the scheme was painted.

The paintings comprise the most complete and important scheme of medieval secular painting in Britain. It is a combination of biblical, moral, didactic and secular subjects, probably based on contemporary literary sources.

The east wall recess shows two Apostles on the north side, part of a series starting on the north wall, each holding his appropriate sentence from the Apostles' Creed. Below these figures is another teaching subject in the recess, where an old man addresses three youths. The south wall of the recess and part of the east depict The Three Living and the Three Dead.

The lower section of the east wall contains a Wheel of the Five Senses, showing a monkey, vulture, spider's web, boar and cockerel, possibly meant to represent taste, smell, touch, hearing and sight. Above this is an unidentified scene of a young man with a dog, facing another male figure. Traces of a long inscription in the centre of the scene would probably aid in deciphering the image, but has not yet been interpreted.

The vault space directly above the east wall contains the remains of a musician on the north side, and traces of the pierced quatrefoil which is believed to have contained one of the evangelists.

Photographic Record

29/6/94 EH 'current' contact photo files;

June 1988, J880239, J880240, J880241, J880242, J880243, J880244. April 1989, wall painting conservation record, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633. April 1989, wall painting conservation record, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649.

EH photo library, computer keyword search;

May 1989, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649. June 1988, wall painting, J880242 (cross-refs; E880399). September 1988, wall painting, E880399 (cross-refs; A881518, J880242). February 1993, East wall mural depicting the Wheel of Five Senses, A921500 (cross-refs; J920873), J920873 (cross-refs; A921500).

Prints in Plans Room guard books

In M2b (or 26?) Longthorpe

A1439/6; Exterior view from the NW, 19/19/51 A1439/2; Interior, N.wall, before KB (guidebook?) A1439/9; Interior, E.wall, before KB (guidebook?) A1439/7; Interior, W.wall, before KB (guidebook?) A1439/1; Interior, S.wall, before KB (guidebook?) A1439/4; Interior, from SW corner, before KB (guidebook?) A1439/3; Interior, from SE corner, before KB (guidebook?)

Copies in studio files

in Folder No. 25 (B/W) Set 1.

A10619/1 21/1/82.-E.wall, centre, detail monkey. A10619/2 21/1/82.-E.wall, centre, detail cock. A10619/3 21/1/82.-E.wall, entrance, N. niche, detail. A10619/4 21/1/82.-E.wall, entrance, detail above door. A10619/5 21/1/82.-S.wall, E.side, detail. A10619/6 21/1/82.-S.wall, W.side, detail. A10619/7 21/1/82.-E.wall, N.side entrance, detail. A10619/8 21/1/82.-W.wall, S.side arch recess, detail. A10619/9 21/1/82.-W.wall, S.side arch recess, detail. A10619/10 21/1/82.-W.wall, N.side, detail above niche. A10619/11 21/1/82.-W.wall, N.side, detail niche. A10619/12 21/1/82.-W.wall, S.side of window recess, detail. A10619/13 21/1/82.-W.wall, N.side, detail bird. A10619/14 21/1/82.-W.wall, centre, detail owl. A10619/15 21/1/82.-W.wall, S.side, detail animals, A10619/16 21/1/82.-W.wall, S.side, detail animals. A10619/17 21/1/82.-W.wall, S.side, detail animals.

A10619/18 21/1/82.-W.wall, S.side, detail animals. A10619/19 21/1/82.-E.wall, centre, detail boar. A10619/20 21/1/82.-E.wall, centre, detail vulture. A10619/21 21/1/82.-E.wall, centre, detail spider. A10619/22 21/1/82.-E.wall, N.side centre, detail King, A10619/23 21/1/82.-E.wall, N.side, detail. A10619/24 21/1/82.-E.wall, S.side, detail. A10619/25 21/1/82.-S.wall, E.side, detail. A10619/26 21/1/82.-S.wall, W.side, detail. A10619/27 21/1/82.-S.wall, W.side, Bonnacon', detail. A10619/28 21/1/82.-N.wall, W.rebate window recess detail. A10619/29 21/1/82.-E.wall, N.side, detail inscription. A10619/30 21/1/82.-Roof vaults, overall view, in Folder No. 25 (B/W) Set 2, As set 1. in Folder No. 25 (Colour), A/CN/10583/1 21/1/82.-E.wall, entrance, N.niche, detail. A/CN/10583/2 21/1/82.-E.wall, centre, detail monkey. A/CN/10583/3 21/1/82.-E.wall, centre, detail cock. A/CN/10583/4 21/1/82.-E.wall, entrance, N.niche, detail. A/CN/10583/5 21/1/82.-E.wall, entrance, detail above door. A/CN/10583/6 21/1/82.-S.wall, E.side, detail. A/CN/10583/7 21/1/82.-S.wall, W.side, detail. A/CN/10583/8 21/1/82.-E.wall, entrance, N.side, detail. A/CN/10583/9 21/1/82.-W.wall, S.side arch recess, detail. A/CN/10583/11 21/1/82.-W.wall, N.side, detail above niche. A/CN/10583/12 21/1/82.-W.wall, N.side, detail niche. A/CN/10583/13 21/1/82.-W.wall, S.side, window recess, detail. A/CN/10583/14 21/1/82.-W.wall, centre, detail bird. A/CN/10583/15 21/1/82.-W.wall, centre, detail owl. A/CN/10583/16 21/1/82.-W.wall, S.side, detail bird. A/CN/10583/17 21/1/82.-W.wall, S.side, detail animals, A/CN/10583/18 21/1/82.-W.wall, S.side, detail animals, A/CN/10583/19 21/1/82.-E.wall, centre, detail boar. A/CN/10583/20 21/1/82.-E.wall, centre, detail vulture. A/CN/10583/21 21/1/82.-E.wall, centre, detail spider. A/CN/10583/22 21/1/82.-E.wall, centre, detail King. A/CN/10583/23 21/1/82.-E.wall, centre, detail. A/CN/10583/24 21/1/82.-E.wall, S.side, detail. A/CN/10583/25 21/1/82.-S.wall, E.side, detail. A/CN/10583/26 21/1/82.-S.wall, W.side, detail. A/CN/10583/27 21/1/82.-S.wall, W.side, detail 'Bonnacon'. A/CN/10583/28 21/1/82.-N.wall, W.side window recess, detail. A/CN/10583/29 21/1/82.-N.wall, E.side window recess, detail. A/CN/10583/31 21/1/82.-W.wall, S,side arch recess, detail. A10582/1 21/1/82.-Overall view E.wall. A10582/2 21/1/82.-Overall view S.wall.

A10582/2 21/1/82.-Overall view S.wall. A10582/3 21/1/82.-Overall view N.wall. A10582/4 21/1/82.-Overall view N.wall. A10582/5 21/1/82.-Overall view W.wall. A10582/6 21/1/82.-Overall view ceiling vault. A10582/7 21/1/82.-Overall view ceiling vault.

A890617 01/5/89.-Detail inscription. A890618 01/5/89.-Detail inscription.

A890619 01/5/89.-Detail inscription. A890620 01/5/89.-Detail inscription. A890621 01/5/89.-Detail inscription. A890622 01/5/89.-N.wall,centre, detail Nativity and inscription. A890623 01/5/89.-Detail inscription. A890624 01/5/89.-N.wall,centre, detail Nativity and inscription. A890625 01/5/89.-N.wall,centre, detail Ages of Man and inscription. A890626 01/5/89.-W.wall,centre, detail inscription. A890627 01/5/89.-Ceiling vault, detail inscription. A890628 01/5/89.-Detail inscription. A890629 01/5/89.-Detail inscription. A890630 01/5/89.-Detail inscription. A890631 01/5/89.-Detail inscription. A890632 01/5/89 - Detail inscription. A890633 01/5/89.-Detail inscription. A890634 01/5/89.-Detail inscription. A890635 01/5/89.-Detail inscription. A890636 01/5/89.-Detail inscription. A890637 01/5/89.-Detail inscription. A890638 01/5/89.-Detail inscription. A890639 01/5/89,-N.wall.centre, detail Nativity and inscription. A890640 01/5/89,-N.wall.centre, detail Nativity and inscription. A890641 01/5/89.-N.wall,centre, detail Nativity and inscription. A890642 01/5/89.-Detail inscription. A890643 01/5/89.-Detail inscription. A890644 01/5/89.-Detail inscription. A890645 01/5/89.-Detail inscription. A890646 01/5/89.-Detail inscription. A890647 01/5/89.-Detail inscription. A890648 01/5/89.-Detail inscription. A890649 01/5/89.-Detail inscription. EH rectified photography: survey 95/107/1R (Feb. 1995) (Camera type; Toyo monorail 5x4) With measures 95/107/1R; 01; East wall; overall view. 95/107/1R: 02: East wall; detail paintings. 95/107/1R; 03; East wall; detail paintings. 95/107/1R; 04; East wall; detail entrance passage. 95/107/1R; 05; East wall; entrance passage, north niche. 95/107/1R; 06; East wall; entrance, detail north niche. 95/107/1R; 07; East wall; entrance passage, north side. 95/107/1R: 08: East wall; entrance passage, south side. 95/107/1R; 09; East wall; entrance passage, south side. 95/107/1R: 10: South wall; overall view. 95/107/1R; 11; South wall; east side, detail. 95/107/1R; 12; South wall; west side, detail. 95/107/1R; 13; South wall; upper wall, detail ... 95/107/1R; 14; West wall; upper wall, detail. 95/107/1R; 15; West wall; detail. 95/107/1R; 16; West wall; window recess, niche, north side, detail. 95/107/1R; 17; West wall; arch soffit, south side detail. 95/107/1R; 18; West wall; arch soffit, south side detail. 95/107/1R; 19; West wall; window, north side, detail. 95/107/1R; 20; West wall; south side, detail. 95/107/1R: 21: North wall; upper wall, detail. 95/107/1R; 22; North wall; overall view. 95/107/1R; 23; North wall; west side, detail. 95/107/1R; 24; North wall; east side, detail. 95/107/1R: 25: North wall; window recess, west side, detail. 95/107/1R; 26; North wall; window recess, west side, upper area, detail. 95/107/1R; 27; North wall; window recess, east side, detail. 95/107/1R; 28; North wall; window recess, west side, upper area, detail. 95/107/1R; 29; Ceiling; south west corner, viewed from west. 95/107/1R; 30; Ceiling; north west corner, viewed from west. 95/107/1R; 31; Ceiling; south east corner, viewed from south. 95/107/1R; 32; Ceiling; south west corner, viewed from south. 95/107/1R; 33; Ceiling; south east corner, viewed from east. 95/107/1R; 34; Ceiling; north east corner, viewed from east. 95/107/1R; 35; Ceiling; north section, from below west. 95/107/1R; 36; Ceiling; north section, from below east. Longthorpe Tower, Cambridgeshire. EH photography: survey 95/107/1R; (Feb. 1995) With measures. 95/107/1R: View north west corner - general not recified. 95/107/1R; View north east corner - general not recified. 95/107/1R; View south east corner - general not recified. 95/107/1R; View south west corner - general not recified. HPLT 211194(43) C 26 [TM/JD] Photograph search, DOE files, EH photo library (JD24/03/95) 19/9/51 'Interior, south wall, showing a King, perhaps Edward III.' A1439/1 'Interior, north wall, showing the nativity and the seven ages of man. A1439/2 Interior, west wall, showing St Antony and the Basket-maker, above, and the Philosopher and A1439/3 Pupil, below.' 'Interior, north-east corner, with modern entrance door.' A1439/4 'Exterior, view from north-west.' A1439/6 'Interior, west wall, showing St Antony and the Basket-maker, above, and the Philosopher and A1439/7 Pupil. below." A1439/8 'Interior, second floor room.' 'Interior, east wall, showing the Wheel of the Senses.' A1439/9 30-4-54 A3161/1-2 exterior views 1976 A(TR)9635/1 west wall A(TR)9683/6 north-east corner 4-81 A(TR)10476/1-3 interior views A(CN)10477/1-3 interior views A10478/1-3 interior views 8/11-12-81 A(CN)10563/1-26 wall paintings A10576/1-22 wall paintings A105/1-5 'wall painting, general views' 21-1-82 A(CN)10582/1-7 'general views (wall paintings' A(CN)10583/1-29 'details' A/BW10619/1-30 'details of wall paintings' Bibliography

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Rickert, M., Painting in Britain: the Middle Ages, 1954, 155, 157, and plate 143b.

Rouse, E., and Baker, A., 'The wall-paintings at Longthorpe Tower near Peterborough, Northants,' Archaeologia, XCVI, Oxford, 1955, 1-57. [the most thorough study to date, although not completely dependable, as it pre-dates much conservation work]

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Sears, E.L., The Ages of Man in Medieval Art, University Microfilms International, Ann Arbor, 1984. [see photocopy in file -- discusses the iconography and secular use of the Seven Ages of Man]

Tristram, E.W., English Wall Painting of the 14th Century, London, 1955, 6 (King David),13 (heraldry),15, 26 (apostles),27(King David, 7 ages of man) ,31,86,92-94 and 107-108 (Wheel of the Senses),114 (3 Living and 3 Dead),219-221(King David), plates 41a,41b, and 64b.

Wood, M.E., Thirteenth-Century Domestic Architecture in England, Architectural Journal, CV, Supplement, 1950, 48. [brief entry on Longthorpe]

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Illustrated London News, XI, 1949 [early photograph?]

Journal of the Courtauld and Warburg Institutes, XXII, 1959, 361-2.

1 Wall Painting Record

Property name	LONGIH	ORPE TOWER			
Region	Midlands		County	Cambridg	eshire
Location of painting	Great Cha	imber			
Orientation	WEST W	ALL INCLUDING VAULT			
Century 14th	Date	1320	Height (cr	n) 520	Width (cm) 460
Subjects included					
Bestiaries					
Four evangelists					
Heraldry					
Labours of the Months					
Musicians					
Saint(s)					
Saint(s)					

Description

The tower at Longthorpe is the only substantial survival of a fortified manor house owned by the de Thorpe family. In 1226 William de Thorp, was confirmed in his landholding by the Abbot of Peterborough. Sir William de Thorpe, his son, obtained permission in 1263-64 from Robert, Abbot of Peterborough, to rebuild the parochial chapel of St. Botolph at Thorpe, which survives nearby. It is likely that the tower was built at the same time by Sir William de Thorpe, as many architectural details correspond to the church.

The son of Sir William, Robert de Thorpe, was appointed Steward of the Abbey in 1310-11, a post which he held until 1329. He was released from villein service in 1323-4. His son, also Robert, was appointed Steward in 1330 and still held Thorpe in 1346. Either could be responsible for commissioning the paintings.

The Thorpe estates passed into the family of Wyttilbury of Milton and Marholm when, in 1391, John Wyttilbury assumed the arms of William Thorpe. At the end of the 15th century they were acquired by the Fitzwilliams of Milton, and they still belong to their descendant. The tower was placed under the care of the Ministry of Works in 1947.

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The paintings comprise the most complete and important scheme of medieval secular painting in Britain. It is a combination of biblical, moral, didactic and secular subjects, probably based on contemporary literary sources.

The west wall contains painting on the outer face of the arch, its soffits and reveals, as well as the inner face of the wall and the west window splays. The inner wall, in the lower zone, contains a seated figure, possibly in a teaching position, facing a younger figure. They are separated by two inscription scrolls, but

the meaning of this scene has not yet been interpreted. Above this is depicted a hermit-like figure, standing in prayer, with birds, trees and animals behind him. A seated youth faces him, making a basket, and traces of another standing figure remain behind him. It has been suggested (Baker and Rouse, 1955) that this scene shows St. Anthony meeting an angel in secular dress.

Above this, on the face of the arch, is a depiction of the Twelve Labours of the Months, of which only January through April, and December, remain. In the lower zone of this arch are local birds and scrollwork, some depictions of local birds, and some derived from bestiaries.

The vault directly above the west wall contains only the remains of one musician on the south side.

Photographic Record

29/6/94 EH 'current' contact photo files;

June 1988, J880239, J880240, J880241, J880242, J880243, J880244. April 1989, wall painting conservation record, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633. April 1989, wall painting conservation record, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649.

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May 1989, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649. June 1988, wall painting, J880242 (cross-refs; E880399). September 1988, wall painting, E880399 (cross-refs; A881518, J880242). February 1993, East wall mural depicting the Wheel of Five Senses, A921500 (cross-refs; J920873), J920873 (cross-refs; A921500).

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Rickert, M., Painting in Britain: the Middle Ages, 1954, 155,157, and plate 143b.

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Yapp, W.B., 'The birds and other animals of Longthorpe Tower,' Antiquaries Journal, LVIII, 1978, 355-358. [deals specifically with this subject matter]

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Property name	LONGTHORPE TOWER			
Region	Midlands	County	Cambridg	geshire
Location of painting	Great Chamber			
Orientation	NORTH WALL INCLUDING VAULT			
Century 14th	Date	Height (cr	n) 520	Width (cm) 475
Subjects included				
Apostle(s)				
Bestiaries				
Four evangelists				
Musicians				
Seven Ages of Man				
The Nativity				

Description

The tower at Longthorpe is the only substantial survival of a fortified manor house owned by the de Thorpe family. In 1226 William de Thorpe was confirmed in his landholding by the Abbot of Peterborough. Sir William de Thorpe, his son, obtained permission in 1263-64 from Robert, Abbot of Peterborough, to rebuild the parochial chapel of St. Botolph at Thorpe, which survives nearby. It is likely that the tower was built at the same time by Sir William de Thorpe, as many architectural details correspond to the church.

The son of Sir William, Robert de Thorpe, was appointed Steward of the Abbey in 1310-11, a post which he held until 1329. He was released from villein service in 1323-4. His son, also Robert, was appointed Steward in 1330 and still held Thorpe in 1346. Either could be responsible for commissioning the paintings.

The Thorpe estates passed into the family of Wyttilbury of Milton and Marholm when, in 1391, John Wyttilbury assumed the arms of William Thorpe. At the end of the 15th century they were acquired by the Fitzwilliams of Milton, and they still belong to their descendant. The tower was placed under the care of the Ministry of Works in 1947.

The house at Longthorpe consists of the original 13th-century north-south wing which probably contained the hall, the 14th-century Great Tower (which houses the paintings), and an east-west wing of the 17th century. The tower retains most of its 14th-century detail, relatively unaltered. The walls are 1.8 to 2.1 metres thick, built almost entirely of small stone rubble. The ground floor houses a vaulted undercroft which is inaccessible from the rest of the tower. The top floor retains a garderobe and the original window-recesses and seats. However, the area of primary concern is the first floor, which houses the Great Chamber, or the lord's private apartment. It is vaulted, and retains an aumbry, various window recesses, two niches, an original fireplace opening, and a small chamber (possibly a garderobe) inserted into the thickness of the wall. The original early 14th-century tower (c.1300) would have only had access from the Great Hall, but later in the 14th century (c.1320-30?) the room was altered for different use: the window on the east wall was blocked and a door was inserted in this area. The arched recess of the north wall (which originally appeared as the west wall does now) was filled in, perhaps for structural reasons. It was after these alterations to the room that the scheme was painted.

The paintings comprise the most complete and important scheme of medieval secular painting in Britain. It is a combination of biblical, moral, didactic and secular subjects, probably based on contemporary literary sources.

The north wall contains a scene of the Nativity above the window arch. The Virgin reclines on a cushion, and Joseph sits at her feet; only a fragment of the ox and the ass is left in the centre. Above this is the Seven Ages of Man, including the Infant in its cradle, the Boy with the ball and whip, Youth, Manhood with

a hawk and lure, Middle Age, Old Age carrying a bag full of savings, and Decrepitude on crutches. Each is labelled below in Lombardic script.

In the lower zone are two more pairs of the Apostles with their Creed inscriptions (fragments of another two pairs remain within the window reveals). An unusual aspect of the eastern pair is that one appears to be a woman, possibly representing the Church (Ecclesia). At dado level are various types of birds within scrollwork. Some are local fenland birds, and some are probably derived from bestiaries.

The vault directly above the north wall contains a significant portion of musician figures on the east and west sides -- one, on the west side, specifically depicts King David with his harp. Much of the pierced quatrefoil, containing traces of an evangelist figure, remains on the west side.

Photographic Record

29/6/94 EH 'current' contact photo files;

June 1988, J880239, J880240, J880241, J880242, J880243, J880244. April 1989, wall painting conservation record, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633. April 1989, wall painting conservation record, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890647, A890648, A890649.

EH photo library, computer keyword search;

May 1989, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649. June 1988, wall painting, J880242 (cross-refs; E880399). September 1988, wall painting, E880399 (cross-refs; A881518, J880242). February 1993, East wall mural depicting the Wheel of Five Senses, A921500 (cross-refs; J920873), J920873 (cross-refs; A921500).

Bibliography

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Rickert, M., Painting in Britain: the Middle Ages, 1954, 155,157, and plate 143b.

Rouse, E., and Baker, A., 'The wall-paintings at Longthorpe Tower near Peterborough, Northants,' Archaeologia, XCVI, Oxford, 1955, 1-57.[the most thorough study to date, although not completely dependable, as it pre-dates much conservation work]

Rouse, E., Longthorpe Tower, EH guidebook, HMSO, London, 1964.[mainly gleaned from the above, but with more accurate and recent information]

Rouse, E., 'Mediaeval paintings at Longthorpe Tower, Country Life, 4 April 1947, 604. [mainly publicity]

Sears, E.L., The Ages of Man in Medieval Art, University Microfilms International, Ann Arbor, 1984. [see photocopy in file -- discusses the iconography and secular use of the Seven Ages of Man]

Tristram, E.W., English Wall Painting of the 14th Century, London, 1955, 6 (King David),13 (heraldry),15, 26 (apostles),27(King David, 7 ages of man) ,31,86,92-94 and 107-108 (Wheel of the Senses),114 (3 Living and 3 Dead),219-221(King David), plates 41a,41b, and 64b.

Wood, M.E., Thirteenth-Century Domestic Architecture in England, Architectural Journal, CV, Supplement, 1950, 48. [brief entry on Longthorpe]

Yapp, W.B., 'The birds and other animals of Longthorpe Tower,' Antiquaries Journal, LVIII, 1978, 355-358. [deals specifically with this subject matter]_____

1 Wall Painting Record

Property name	LONGTHORPE TOWER				
Region	Midlands		County	Cambridge	shire
Location of painting	Great Chamber				
Orientation	SOUTH WALL INCLUDI	NG VAULT			
Century 14th	Date		Height (cm) 520	Width (cm) 478
Subjects included					
Bestiaries					
Chevron pattern					
Figurative					
Four evangelists					
Heraldry					
Musicians					

Description

The tower at Longthorpe is the only substantial survival of a fortified manor house owned by the de Thorpe family. In 1226 William de Thorpe was confirmed in his landholding by the Abbot of Peterborough. Sir William de Thorpe, his son, obtained permission in 1263-64 from Robert, Abbot of Peterborough, to rebuild the parochial chapel of St. Botolph at Thorpe, which survives nearby. It is likely that the tower was built at the same time by Sir William de Thorpe, as many architectural details correspond to the church.

The son of Sir William, Robert de Thorpe, was appointed Steward of the Abbey in 1310-11, a post which he held until 1329. He was released from villein service in 1323-4. His son, also Robert, was appointed Steward in 1330 and still held Thorpe in 1346. Either could be responsible for commissioning the paintings.

The Thorpe estates passed into the family of Wyttilbury of Milton and Marholm when, in 1391, John Wyttilbury assumed the arms of William Thorpe. At the end of the 15th century they were acquired by the Fitzwilliams of Milton, and they still belong to their descendant. The tower was placed under the care of the Ministry of Works in 1947.

The house at Longthorpe consists of the original 13th-century north-south wing which probably contained the hall, the 14th-century Great Tower (which houses the paintings), and an east-west wing of the 17th century. The tower retains most of its 14th-century detail, relatively unaltered. The walls are 1.8 to 2.1 metres thick, built almost entirely of small stone rubble. The ground floor houses a vaulted undercroft which is inaccessible from the rest of the tower. The top floor retains a garderobe and the original window-recesses and seats. However, the area of primary concern is the first floor, which houses the Great Chamber, or the lord's private apartment. It is vaulted, and retains an aumbry, various window recesses, two niches, an original fireplace opening, and a small chamber (possibly a garderobe) inserted into the thickness of the wall. The original early 14th-century tower (c.1300) would have only had access from the Great Hall, but later in the 14th century (c.1320-30?) the room was altered for different use: the window on the east wall was blocked and a door was inserted in this area. The arched recess of the north wall (which originally appeared as the west wall does now) was filled in, perhaps for structural reasons. It was after these alterations to the room that the scheme was painted.

The paintings comprise the most complete and important scheme of medieval secular painting in Britain. It is a combination of biblical, moral, didactic and secular subjects, probably based on contemporary literary sources.

The south wall contains a heraldic diaper pattern within a decorative border in the lower zone. Above are two throned figures with shields bearing leopards. A small fragment of a long inscription remains beneath these figures. However, this scene has never been definitively interpreted.

The vault directly above the south wall contains the remains of musicians on the east and south sides, and part of a pierced quatrefoil in which one of the evangelists was depicted.

Photographic Record

29/6/94 EH 'current' contact photo files;

June 1988, J880239, J880240, J880241, J880242, J880243, J880244. April 1989, wall painting conservation record, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633. April 1989, wall painting conservation record, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649.

EH photo library, computer keyword search;

May 1989, infrared record, A890617, A890618, A890619, A890620, A890621, A890622, A890623, A890624, A890625, A890626, A890627, A890628, A890629, A890630, A890631, A890632, A890633, A890634, A890635, A890636, A890637, A890638, A890639, A890640, A890641, A890642, A890643, A890644, A890645, A890646, A890647, A890648, A890649. June 1988, wall painting, J880242 (cross-refs; E880399). September 1988, wall painting, E880399 (cross-refs; A881518, J880242). February 1993, East wall mural depicting the Wheel of Five Senses, A921500 (cross-refs; J920873), J920873 (cross-refs; A921500).

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Rouse, E., and Baker, A., 'The wall-paintings at Longthorpe Tower near Peterborough, Northants,' Archaeologia, XCVI, Oxford, 1955, 1-57.[the most thorough study to date, although not completely dependable, as it pre-dates much conservation work]

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Wood, M.E., Thirteenth-Century Domestic Architecture in England, Architectural Journal, CV, Supplement, 1950, 48. [brief entry on Longthorpe]

Yapp, W.B., 'The birds and other animals of Longthorpe Tower,' Antiquaries Journal, LVIII, 1978, 355-358. [deals specifically with this subject matter]

Illustrated London News, XI, 1949 [early photograph?]

Journal of the Courtauld and Warburg Institutes, XXII, 1959, 361-2.

2 General Audit Information

Property name	LONGTHORPE TOWER			County	Cambridgeshire
Region	Midlands				
Location	Great Chamber				
Orientation	EAST WALL INCLUDING VAULT				
Century 14th	Date	1320	Height (cm) 520	Width (cm) 458
Auditor(s)	TM/JD		Start date 21/11/94		

Overall condition score 3

Recommendations

The paintings comprise the most complete and important scheme of medieval secular painting in Britain. The treatment of the east wall appears to have been completed by the time conservation work was halted in 1991.

The tower has a history of structural movement, and the plaster throughout the painted chamber shows evidence of this movement. There are numerous cracks which are disfiguring. The vulnerable area over the east door is cracking severely and requires urgent repair if repair plaster and original painted plaster is not to be lost. Repairs might also serve to monitor these cracks if inspected annually.

(Time scale: 2 people, 1 week, within the next year.)

NOTE: On the basis of this audit a three week investigation was carried out during March and April 1995 as part of the collaborative training programme with the Courtauld Institute of Art, supervised by Stephen Rickerby. This offered the opportunity to thoroughly document the paintings and to undertake some of the minor emergency treatment recommended in this report. The results of this project are outlined in a subsequent report 'Longthorpe Tower: A report on the examination of the wall paintings' March-April 1995.

2 General Audit Information

Property name	LONGTHORPE TOWER			County	Cambridgeshire
Region	Midlands				
Location	Great Chamber				
Orientation	WEST WALL INCLUDING VAULT				
Century 14th	Date	1320	Height (cm) 520	Width (cm)	460
Auditor(s)	JD, TM		Start date 22/11/94		

Overall condition score 3

Recommendations

The paintings comprise the most complete and important scheme of medieval secular painting in Britain, and their present appearance is felt to be unacceptable. The treatment of the west wall was completed by the time conservation work was halted in 1991.

There is some limited (recent) flaking of the paint layer to the inner wall, at low level which will require fixing especially as this area is vulnerable to mechanical damage.

The vault should be inspected from a scaffold to establish the stability of plaster layers.

NOTE: On the basis of this audit a three week investigation was carried out during March and April 1995 as part of the collaborative training programme with the Courtauld Institute of Art, supervised by Stephen Rickerby. This offered the opportunity to thoroughly document the paintings and to undertake some of the minor emergency treatment recommended in this report. The results of this project are outlined in a subsequent report 'Longthorpe Tower: A report on the examination of the wall paintings' March-April 1995.

2 General Audit Information

Property name	LONGTHORPE TOWE	County	Cambridgeshire		
Region	Midlands				
Location	Great Chamber				
Orientation	NORTH WALL INCLUDING VAULT				
Century 14th	Date	Height (cm)520	Width (cm)	475	
Auditor(s)	JD, TM	Start date 21/11/94			

Overall condition score 4

Recommendations

The paintings comprise the most complete and important scheme of medieval secular painting in Britain, and their present appearance is felt to be unacceptable. The conservation of the paintings was prematurely halted in 1991 due to the retirement of the conservator in charge. This has left the 1946 wax coating intact on the upper west side of the north wall (and the entire south wall); in other areas the coating (along with large areas of retouching) has only been partially removed. The boundaries between cleaned and uncleaned areas present disturbingly hard outlines.

The tower has a history of structural movement, and the plaster throughout the painted chamber shows evidence of this movement. There are numerous cracks which are disfiguring. These have led to the delamination and bulging of the plaster. On the north wall, a gaping hole at the apex of the arch regularly deposits sand and dirt onto the custodian's desk below. Previously (Barakan 1991) this was thought to be due to masonry bees. However, it is now known that masonry bees have been treated and were active elsewhere in the building. This hole, and the surrounding area, require urgent consolidation and repair.

The present position of the custodian's desk is controversial because it is situated in a window niche within the north wall, the surfaces of which bear traces of original painted decoration. However, there may not be a suitable alternative location within the room, and it is felt that the constant presence of a custodian can only be beneficial to the paintings.

NOTE: On the basis of this audit a three week investigation was carried out during March and April 1995 as part of the collaborative training programme with the Courtauld Institute of Art, supervised by Stephen Rickerby. This offered the opportunity to thoroughly document the paintings and to undertake some of the minor emergency treatment recommended in this report. The results of this project are outlined in a subsequent report 'Longthorpe Tower: A report on the examination of the wall paintings' March-April 1995.

2 General Audit Information

Property name	LONGTHORPE TOWER	County	Cambridgeshire
Region	Midlands		
Location	Great Chamber		
Orientation	SOUTH WALL INCLUDING VAULT		

Orientation	SOUTH WALL INCLUDING VAULT				
Century 14th	Date	Height (cm)520	Width (cm) 478		
Auditor(s)	JD, TM	Start date 22/11/94			

Overall condition score 3

Recommendations

The paintings comprise the most complete and important scheme of medieval secular painting in Britain, and their present appearance is felt to be unacceptable. The conservation of the paintings was prematurely halted in 1991 due to the retirement of the conservator in charge. This has left the 1946 wax coating intact on the entire south wall (and the upper west side of the north wall). Several areas of cleaning tests are visible.

The tower has a history of structural movement, and the plaster throughout the painted chamber shows evidence of this movement. There are numerous severe cracks on the south wall which run through both original and repair plasters, indicating recent damage. Delamination of the plaster may have occurred as a consequence of the cracking. Minor repairs to the cracks are required.

There are also small losses over the surface of the plaster, indicating deterioration of the plaster itself. This may be the result of the continued presence of the wax coating, as this phenomenon has not been observed elsewhere in the chamber. This should be examined further (from scaffolding) and consolidation may be required.

NOTE: On the basis of this audit a three week investigation was carried out during March and April 1995 as part of the collaborative training programme with the Courtauld Institute of Art, supervised by Stephen Rickerby. This offered the opportunity to thoroughly document the paintings and to undertake some of the minor emergency treatment recommended in this report. The results of this project are outlined in a subsequent report 'Longthorpe Tower: A report on the examination of the wall paintings' March-April 1995.

3 Audit Information: Technique

Property name	LONGTHOR	PE TOWE	R		
Region	Midlands			County	Cambridgeshire
Location	Great Chaml	per			
Orientation	EAST WALL	INCLUDIN	IG VAULT		
Century 14th	Date	1320	Height (cm)520	Width (cm)	458
Auditor(s)	TM/JD		Start date 21/11/94		
Overall Cond	ition Score	3			
<u>Stratigraphy</u>					
Layer type	Support Layer		Specific condition Sco	re 3	<u></u>
Thickness					
Comments					
past structural m internal plaster n	ovement - repaired ex	ternal crac instability.	th ashlar quoins. There a ks are visible - however a The quoins are only part	active cracking	of the
Layer type	Render Layer 1	· · · · · · · · · · · · · · · · · · ·	Specific condition Sco	re 3	
Thickness					
Comments					
extensively repai		ntative cond	The surface has been da clusions were made. Agg nto the quoins.		ies
Layer type	Render Layer 2		Specific condition Sco	re 2	
Thickness					
Comments					
some tentative c			and repaired, however fro 2 appears to be a lime/sai		
Layer type	Ground Layer 1		Specific condition Sco	re 2	
Thickness					
Comments					
Coarsely applied	limewash ground, stri	ations of bi	ushstokes visible.		
Layer type	Ground Layer 2		Specific condition Sco	re 2	
Thickness					
Comments					
bristle brush (Rou	ise, 1964:19). Circula	ir and straig	s. Thought to have been ght incisions to assist the ht to the centre of the who	execution of th	

1

Paint Layer 1

Specific condition Score 2

Layer type Thickness

Comments

The range of pigments identified in the paintings suggests an organic binding medium was employed - at least in part - by the artist. Lead white (now altered) was confirmed by P. Welford (Courtauld Institute of Art, final diss.1991). E. C. Rouse noted vermilion following UV and IR examinations (Rouse, 1964:19). From simple visual assessment earth pigments (red and yellow iron oxide) and lime white were also identified (Rouse, 1964:19). Black is also present.

Identified pigments	Colours
white lead	white
vermilion	red
lime white	white
	black
yellow earth	yellow
red earth	red

Analysis undertaken

Method	POLARIZING LIGHT MICROSCOPY			
Person	P. Welford	Date	01/01/91	
Comments	Lead white (now alter diss.1991).	ed) was confi	irmed by P.	Welford (Courtauld Institute of Art, final

Analysis undertaken

 Method
 ULTRA VIOLET LIGHT MICROSCOPY (U.V.L.M.)

 Person
 E.C. Rouse
 Date
 01/01/64

 Comments
 E. C. Rouse noted vermilion following UV and IR examinations (Rouse, 1964:19). From simple visual assessment earth pigments (red and yellow iron oxide) and lime white were also identified (Rouse, 1964:19).

3 Audit Information: Technique

				_			
Property name		LONGTHOF	RPE TOWER	R		- <i>.</i>	
Region		Midlands				County	Cambridgeshire
Location	(Great Cham	ber				
Orientation	١	WEST WAL		NG VAULT			
Century 14th	I	Date	1320	Height (cm)	520	Width (cm)	460
Auditor(s)	•	JD, TM		Start date	22/11/94		
Overall Cond	lition So	core	3				
<u>Stratigraphy</u>							
Layer type	Support	Layer		Specific co	ndition Sco	re 3	
Thickness							
Comments							
The support is co past structural m internal plaster n and the pointing	ovement nay indica	- repaired e ite continue	xternal crac d instability.	ks are visible	- however, a	ctive cracking	of the
Layer type	Render	Layer 1		Specific cor	ndition Sco	re 3	
Thickness							
Comments							
Lime/sand rende extensively repai fine to 0.5 cm. Ti	ired, there	efore only te	ntative conc	lusions were			es from
Layer type	Render	Layer 2	· · · · · · · · · · · · · · · · · · ·	Specific cor	ndition Sco	re 2	
Thickness							
Comments							
The surface has some tentative c render 1, with slig	onclusion	s were draw					
Layer type	Ground	Layer 1		Specific cor	ndition Scor	re 2	
Thickness							
Comments							
Coarsely applied	limewash	n ground, str	iations of br	ushstrokes vis	sible.		
Layer type	Ground I	Layer 2	<u> </u>	Specific con	dition Scor	e 2	·······
Thickness							
Comments							
Coarsely brushed bristle brush (Rou			over quoin	s. Thought to	have been a	pplied using a	hog's

ł

Paint Layer 1

2

Layer type Thickness

Comments

The range of pigments identified in the paintings suggests an organic binding medium was employed - at least in part - by the artist. lead white (now altered) was confirmed by P.Welford (Courtauld Institute of Art, final diss. 1991). E.C. Rouse noted vermilion folowing UV and IR examinations (Rouse, 1964:19). From simple visual assessment earth pigments (red and yellow iron oxide) and lime white were also identified (Rouse, 1964:19).

Colours
red
white
white
black
red
yellow

Analysis undertaken

Method	POLARIZING LIGHT MICROSCOPY		
Person	P.Welford	Date	01/01/91
Comments	Lead white (now altered) v diss. 1991).	vas confi	rmed by P.Welford (Courtauld Institute of Art, final

Analysis undertaken

Method	ULTRA VIOLET LIGHT MICROSCOPY (U.V.L.M.)		
Person	E.C. Rouse	Date	01/01/64
Comments		earth pigr	g UV and IR examinations (Rouse, 1964:19). From nents (red and yellow iron oxide) and lime white were

3 Audit Information: Technique

Property name	LONGTHORPE TOWE	R		
Region	Midlands		County	Cambridgeshire
Location	Great Chamber			
Orientation	NORTH WALL INCLU	DING VAULT		
Century 14th	Date	Height (cm)520	Width (cm) 4	75
Auditor(s)	JD, TM	Start date 21/11/94		
Overall Condi	ition Score 4			
<u>Stratigraphy</u>				
Layer type	Support Layer	Specific condition Sco	re 3	
Thickness				
Comments				
fourteenth centur appeared as the v external cracks h instability. On the	all stone rubble with ashlar quoin y, by blocking the recessed arcl west wall does now). There are ave been repaired. However, in a north wall, the cracks appear to nly partly visible in areas, and t	n, perhaps for structural rea obvious signs of past struc ternal plaster cracks may i o be worse than in c.1964 p	asons (it origina tural movemen ndicate continu photographs.	illy it, and
Layer type	Render Layer 1	Specific condition Sco	re 3	
Thickness				
Comments				
repaired, howeve	with coarse and fine aggregate r from existing damage some te fine to 0.5 cm size. This render	entative conclusions were r	nade. Aggrega	
Layer type	Render Layer 2	Specific condition Sco	re 3	·
Thickness				
Comments				
tentative conclusi render layer 1, with	been heavily abraded and repair ons were made.This render laye th slightly finer aggregate. Crac counts for poor condition score.	er appears to be a lime/sar	id render simila	ar to
Layer type	Ground Layer 1	Specific condition Sco	re 2	
Thickness				
Comments				
Coarsely brushed	limewash ground, striations vis	ible.		
Layer type	Ground Layer 2	Specific condition Sco	re 3	······································
Thickness				
Comments				
Coarsely brushed (Rouse, 1964:19).	limewash, continuing over ston	e quoins. Applied with hog	's bristle brush	

Paint Layer 1

2

Layer type Thickness

Comments

Due to the types of pigments present,, presumably an organic medium was employed. P. Welford (Courtauld Institute of Art, final diss., 1991) confirmed the use of (altered) lead white. E. Rouse noted the use of vermilion in 1964 using UV and IR techniques (Rouse, 1964:19). From simple visual examination red and yellow iron oxides were identified (Rouse, 1964:19). Black is also present.

Identified pigments	Colours
lime white	white
white lead	white
	black
vermilion	red
red earth	red
yellow earth	yellow

Analysis undertaken

Method	POLARIZING LIGHT MICROSCOPY			
Person	P.Welford	Date	01/01/91	

Comments P. Welford (Courtauld Institute of Art, final diss., 1991) confirmed the use of (altered) lead white.

Analysis undertaken

MethodULTRA VIOLET LIGHT MICROSCOPY (U.V.L.M.)PersonE.C. RouseDate01/01/64CommentsE. Rouse noted the use of vermilion in 1964 using UV and IR techniques (Rouse, 1964:19). From simple visual examination red and yellow iron oxides were identified (Rouse, 1964:19).

3 Audit Information: Technique

Property nam	e LONGTHORPE T	OWER		
Region	Midlands		County	Cambridgeshire
Location	Great Chamber			
Orientation	SOUTH WALL IN	CLUDING VAULT		
Century 14th	Date	Height (cm)520	Width (cm)	478
Auditor(s)	JD, TM	Start date 22/11/94		
Overall Con	dition Score 3		•	
<u>Stratigraphy</u>				
Layer type	Support Layer	Specific condition Sco	re 3	
Thickness				
Comments				
movement, and indicate continu	d external cracks have been ued instability.	hlar quoins. There are obvious s repaired. However, internal plas and the pointing has been heavil	ter cracks ma	
Layer type	Render Layer 1	Specific condition Sco	re 3	······································
Thickness				
Comments				
repaired, howe	ver from existing damage so	egate. The surface has been hea me tentative conclusions were n nder thins out over stone quoins	hade. Aggreg	
Layer type	Render Layer 2	Specific condition Sco	re 3	
Thickness		·		
Comments				
tentative conclu	usions were made. This lime, . Cracking and pockets of de	repaired, however from exisitng /sand render is similar to render lamination, as well as previous l	layer 1, with	slightly
Layer type	Ground Layer 1	Specific condition Scor	re 2	
Thickness				
Comments				
Coarsely brush	ed limewash ground, striation	ns visible.		
Layer type	Ground Layer 2	Specific condition Scor	re 3	
Thickness	·			
Comments				
Coarsely brush (Rouse, 1964:1		r stone quoins. Applied with hog'	s bristle brus	h

Paint Layer 1

Specific condition Score

2

Layer type Thickness

Comments

Due to the types of pigments present, presumably an organic medium was employed. P. Welford 9Courtauld Institute of Art, final diss, 1991) confirmed the use of (altered) lead white. E. Rouse noted the use of vermilion in 1964 using UV and IR techniques (Rouse, 1964:19). From simple visual examination red and yellow iron oxide pigments were identified (Rouse, 1964:19). Black is also present.

Identified pigments	Colours
lime white	white
	black
white lead	white
vermilion	red
red earth	red
yellow earth	yellow

Analysis undertaken

Method ULTRA VIOLET LIGHT MICROSCOPY (U.V.L.M.)

Person E.C. Rouse Date 01/01/64

Comments E. C. Rouse noted vermilion following UV and IR examinations (Rouse, 1964:19). From simple visual assessment earth pigments (red and yellow iron oxide) and lime white were also identified (Rouse, 1964:19).

Analysis undertaken

Method	POLARIZING LIGHT MICROSCOPY		
Person	P. Welford	Date	01/01/91
Comments	P. Welford (Courtauld Inst lead white.	itute of A	rt, final diss, 1991) confirmed the use of (altered)

4 Audit Information: deterioration and damage, added materials, treatment

Property na	ame	LONGTHO	ORPE TOWE	R				
Region		Midlands			County	Cambridgeshire		
Location		Great Cha	mber					
Orientation	DN EAST WALL INCLUDING VAULT							
Century 14	4th	Date	1320	Height (cm)520	Width (cm) 458		
DETERIO	RATION A		AGE					
Deterioratio	on phenom	<u>ena</u>						
Туре	flaking							
Location	To arm of n	nonkey, left	above firepla	ace, also some genera	I.			
Comments	occurred. Letters in th	During the 19	994 audit it a cords treatm	of the paint and grou appeared that these a ent by M. Keevil durin	eas had been tre	ated.		
Туре	cracking							
Location	Above door	(repair and	original), no	rth side of door and do	or recess.			
comments	to the interior susceptible these timbe	or. Their ex to moveme rs may exac	ternal surfac nt in respons cerbate the c	horizontally through the es are exposed and the to environmental che racking phenomenon, building are also likel	erefore may be anges. Moveme however previou	ent of is (and		
Туре	loss							
Location	Repair above door lintel.							
Comments		in addition i		lintel and the plaster i ected by vibrations ca				
Гуре	delaminatio	n (render lay	yer)					
_ocation	Repair abov	ve door.						
Comments	Delamination is occurring following weakening of the plaster structures caused by cracking.							
Туре	pigment alte	eration						
	plus scholar	rs in recess.		vheel of senses, three	-			
Comments			pigment to d 1 in several a	ark brown-black lead (areas.	compounds (prot	bably		
Machanical	damaqo							
Mechanical	uunuge							

Location Above door.

1

ł.

Comments Several nail holes visible. Apparently these date from the mid-twentieth century when the building was occupied by the Home Guard (Rouse, 1955:1).

Туре	insertions
Location	North reveal of door recess, west of niche.
Comments	${f s}$ A white rubber 'door stop' has been fixed into the plaster with a large screw.

Туре	minor losses
Location	Door recess, above door, north side, high level.
Comments	Removal of original material (probably plaster only) to expose early window tracery. The reveals to the new opening have been neatly repaired.

ADDED MATERIALS

Accretions

(

Accretions	
Туре	dirt
Location	Surfaces.
Comments	Light soiling, appears to adhere well to remnants of wax coating (partially removed).
Туре	dust
Location	Surfaces.
Comments	Light soiling, appears to adhere well to remnants of wax coating (partially removed).
Туре	cobwebs
Location	Window reveal and niche corners.
Comments	Light accumulation of cobwebs.
Coatings/C	overings
Туре	wax
Location	Surfaces.
Comments	A wax preservative coating was applied, following uncovering, in c. 1946. The wax coating was partially removed during the 1980's by K. Barakan.
Туре	limewash
Location	Surfaces.
Comments	Limewash was removed c. 1946 by Tristram and E. C. Rouse. A few remnants remain.
Туре	plaster
Location	Surfaces.
Comments	Barakan (1982) infers that a hair plaster was present overlying areas of paint.
Repairs	
Туре	hair plaster

Туре	hair plaster
Location	Upper north side, vault, and door recess
Comments	Pinkish hair plaster, probably 17th century. This may be the plaster which was removed in order to reveal the painted scheme.
Туре	lime:sand
Location	Vault and small patches on wall
Comments	Lime/sand repairs made by K. Barakan in 1982.
Туре	modern plaster
Location	Several, wall, door recess and ceiling
Comments	Tristram and Rouse's lime-based repairs, flush with original plaster, toned to match surrounding areas. A rough sketch (see file) made by K. Barakan identify these as part of the Tristram/Rouse campaign.

(:		
(Туре	lime:sand
$\langle \cdot \rangle$	Location	Monkey on Wheel of Senses and various cracks and losses
(Comments	M. Keevil's lime/sand repairs of 1965, made to localized areas as part of an emergency treatment.
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TREATM	ENT					
Past Treatr	<u>nent</u>					
Туре	UNCOVERING	Date	01/01/45			
Person	Hugh Horrell (then tenant)					
Comments	When the Home Guard finally vacated the tower, Mr. Horrell set about redecorating the room for his own use. In the course of his rough scraping down of the walls, he detached large flakes of distemper and limewash and saw that the underlying colour was extensive. He therefore proceeded with greater caution, and laboriously worked away until a number of figures had been revealed. He wisely stopped when any fragile or difficult part was reached. The discovery was reported to the owner [who] authorized the work of full uncovering, repair and preservation in 1946.' (Rouse 1955:1)					
<u>Past Treatr</u>	nent					
Туре	APPLICATION OF COATING	Date	01/01/46			
Person	E.W. Tristram, E.C. Rouse					
Comments	report, 1981) states that the wa	and fix it.' (Rouse a wax preservation method of treatm x was applied, fol	1955:31). There are no direct ve but this clearly relates to pent at the time. Barakan (in her			
Туре	CLEANING	Date	01/01/46			
Person	E.W. Tristram, E.C. Rouse					
Comments	'The policy pursued in dealing v painting survived and to clean a					
Туре	CONSOLIDATION	Date	01/01/46			
Person	E.W. Tristram, E.C. Rouse					
Comments	'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31). It is thought the consolidation was carried out with limewater (see Barakan letter, 1981)					
Туре	FILLS/REPAIRS INSERTION	Date	01/01/46			
Person	E.W. Tristram, E.C. Rouse					
	'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it. At the same time plaster repairs were executed. In many cases, where there were serious settlement cracks or failures or unsuitable previous patching, this amounted almost to structural work. In the wheel subject, for instance, parts of the plaster were actually loose from the wall, and the number of repairs, large and small, amounted to over sixty.' (Rouse 1955:31)					
Туре	PRESENTATION/REINTEGRA	TION Date	01/01/46			
Person	E.W. Tristram, E.C. Rouse					
	Plaster repairs were toned down broken lines or areas were sugg perished plaster or miscellaneou (Rouse 1955:31)	jested by a light to	oning. Areas of completely			

(

Туре	UNCOVERING	Date	01/01/46
Person	E.W. Tristram, E.C. Rouse		
Comments	 'The policy pursued in dealing painting survived and to clean 		as to uncover every area where 1955:31)
<u>Past Treati</u>	nent		
Туре	STRUCTURAL REPAIRS	Date	01/01/47
Person	M.O.W.		
Comments	of tamping, with tile stitches, o placing of a concealed concret together. The lower portion, wi	out. This work incl of the several alarm te beam round the here no complication uted. Excavation of	uded the filling up by a method ing settlement cracks, and the top of the whole building to tie it
<u>Past Treatr</u>	<u>nent</u>		
Туре	CLEANING	Date	25/10/65
Person	M. Keevil		
	wall was cleaned with putty rul difference to the general appea grime, the painting was silhout background [on the south wall] the painted very good result.'	bber. This treatmen arance of the painti etted more strongly	ing, by removing a layer of against the light coloured
Туре	FILLS/REPAIRS INSERTION	Date	25/10/65
Person	M. Keevil		
Comments	'The Wheel of the Senses. A d hand corner of the painting [sid together with the lime putty su sand and toned to harmonize w cracks on this wall were treated [on the south wall] many old cr lime putty and sand.'	c] this involved sligi pport. The damage with the surrounding d in the same way.	ht loss of the painted surface was filled with lime putty and g colour. Other old damages and
<u>Past Treatn</u>	<u>nent</u>		
Гуре	FLAKE FIXING	Date	10/02/81
744	Unknown/K. Barakan?		
Person			de above the fireplace has now

<u>Past Treatment</u>

1

Туре	CLEANING	Date	01/04/82			
Person	K. Barakan					
Comments	 'The eastern quarter of the ceiling where the condition was worse was restored during March-April wax was removed partially with trichloroethane and mechanically There are areas of original painting covered by plaster which was mechanically removed' There are also notes in the files which indicate that a carbon tetrachloride poultice was used, stating: 'Carbon tetrachloride poultice: clear white greasy [?] which disappears after poulticing and washing off with carbon tetrachloride' 					
Туре	CONSOLIDATION	Date	01/04/82			
Person	K. Barakan					
Comments	decomposed and crumbling.	areas are loose, the n . There is very little a vation process the orig	nortar underneath the plaster is dhesion of plaster to this jinal plaster was separated from			
Туре	FILLS/REPAIRS INSERTIO	N Date	01/04/82			
Person	K. Barakan					
	'The eastern quarter of the ceiling where the condition was worse was restored during March-April Large areas are loose, the mortar underneath the plaster is decomposed and crumbling. There is very little adhesion of plaster to this mortar During the conservation process the original plaster was separated from repairs, loose parts were injected with calcium casein, wax was removed partially with trichloroethane and mechanically. Large cracks and cavities were filled with lime and yellow sand putty. This quarter of the ceiling is now completed. The areas of new plaster will be toned with lime casein wash and toned with colour when conservation of the ceiling area will be completed.'					
Proposed 1	<u>Treatment</u>					
Туре	FILLS/REPAIRS INSERTIO	N Date	12/11/94			
Person	JD, TM					
	The area over the door is cracking and delaminating; although this is 17th-century plaster it is adjacent to fragments of original painted plaster. It is especially vulnerable to vibration caused by use of the heavy wooden door. A number of other cracks and small losses also require treatment.					
<u>Past Treatn</u>	<u>ient</u>					
	MONITORING CONDITION	Date	01/04/95			
Туре			01101100			
Type Person	Courtauld Institute/English H					

4 Audit Information: deterioration and damage, added materials, treatment

Property n	ame	LONGTHO						
Region		Midlands			County	Cambridgeshire		
Location		Great Cha	mber		,			
Orientation				NG VAULT				
Century 1		Date	1320	Height (cm)520	Width (cn	1) 460		
DETERIC	RATION A		AGE					
<u>Deteriorati</u>	on phenom	ena						
Туре	pigment alt	eration						
Location	Birds, St. A	nthony's rob	e, flesh tone	S				
Comments	Partial conv	version of lea	ad white to pl	attnerite (see P. Welfo	ord, 1991)			
Туре	cracking							
Location	-	: large one f	rom apex of	vault down north side o	of arch			
	-		•	t structural movement.		are not		
				tinuing movement of t				
Туре	loss							
Location	Numerous-	Numerous see diagram						
Comments		Significant amount of render loss, mostly repaired. See diagram for a mapping of the various repairs.						
Туре	delaminatio	n (render lay	yer)					
Location	Several are	as at low lev	/el					
Comments	Possibly due to incomplete grouting, or caused by various cracks. Hollow pockets appear to be stable.							
Туре	flaking							
Location	Lower wall ((figures)						
Comments		Possibly recent damage. Lighter (unwaxed) areas are revealed by the loss and therefore post-dates the wax coating which was partially removed by Barakan (1982).						
<u>Mechanica</u>	l damage							
Туре	nail holes							
Location	Throughout							
Comments	Apparently (1955:1)	late from wh	nen the tower	was used by the Hom	e Guard (Rouse	э,		

ADDED MATERIALS

Accretions

Accientiti	
Туре	dirt
Location	Surface
Comments	Not disfiguring
Туре	dust
Location	Surface
Comments	Not disfiguring
Туре	cobwebs
Location	Surface, especially corners and recesses
Comments	Not disfiguring
Coatings/C	overings
Туре	wax
Location	Window splay
Comments	Evidence of remains of wax coating. This was applied as a preservative by Tristram and Rouse in 1946.
<u>Repairs</u>	
Туре	unidentified
Location	Throughout
Comments	There are several large repairs to the north side soffit of arch, arch and window splays, as well as the vault. The majority of the repairs are toned or retouched. They include a pinkish 17th-century hair plaster (which once probably covered the paintings), the extensive Tristram and Rouse repairs, Barakan repairs, and other unidentified smaller fills.

	<u>ment</u>		
Туре	UNCOVERING	Date	01/01/45
Person	Hugh Horrell (then tenant)		
omments	underlying colour was extensiv and laboriously worked away u	wn use. In the cou flakes of distemp e. He therefore pr ntil a number of fig e or difficult part w uthorized the wor	arse of his rough scraping down er and limewash and saw that the oceeded with greater caution, gures had been revealed. He vas reached. The discovery was
ast Treati	<u>nent</u>		
уре	APPLICATION OF COATING	Date	01/01/46
erson	E.W. Tristram, E.C. Rouse		
comments	report, 1981) states that the wa	and fix it.' (Rouse a wax preservation method of treatm x was applied follo	1955:31) There are no direct ve but this clearly relates to the time. Barakan (in her
pe	CLEANING	Date	01/01/46
•	CLEANING E.W. Tristram, E.C. Rouse	Date	01/01/46
erson		vith the painting w	as to uncover every area where
erson omments	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing v	vith the painting w	as to uncover every area where
erson omments ype	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a	vith the painting w and fix it.' (Rouse	as to uncover every area where 1955:31) .
erson omments /pe erson	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a CONSOLIDATION	vith the painting w and fix it.' (Rouse Date vith the painting w and fix it.' (Rouse	as to uncover every area where 1955:31) . 01/01/46 as to uncover every area where 1955:31) It is thought that the
pe pe erson pomments	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a CONSOLIDATION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a	vith the painting w and fix it.' (Rouse Date vith the painting w and fix it.' (Rouse	as to uncover every area where 1955:31) . 01/01/46 as to uncover every area where 1955:31) It is thought that the
erson omments rpe erson omments pe	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a CONSOLIDATION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a consolidation was carried out w	vith the painting w and fix it.' (Rouse Date with the painting w and fix it.' (Rouse ith limewater (Bar	as to uncover every area where 1955:31) . 01/01/46 as to uncover every area where 1955:31) It is thought that the akan report, 1981).
erson omments ype erson omments ype erson	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a CONSOLIDATION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a consolidation was carried out w FILLS/REPAIRS INSERTION	vith the painting w and fix it.' (Rouse Date vith the painting w and fix it.' (Rouse ith limewater (Bar Date vith the painting w	as to uncover every area where 1955:31) . 01/01/46 as to uncover every area where 1955:31) It is thought that the akan report, 1981). 01/01/46 as to uncover every area where
rson pe rson mments pe rson mments	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a CONSOLIDATION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a consolidation was carried out w FILLS/REPAIRS INSERTION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w	vith the painting w and fix it.' (Rouse Date vith the painting w and fix it.' (Rouse ith limewater (Bar Date vith the painting w	as to uncover every area where 1955:31) . 01/01/46 as to uncover every area where 1955:31) It is thought that the akan report, 1981). 01/01/46 as to uncover every area where
ype erson omments ype erson	E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a CONSOLIDATION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a consolidation was carried out w FILLS/REPAIRS INSERTION E.W. Tristram, E.C. Rouse 'The policy pursued in dealing w painting survived and to clean a	vith the painting w and fix it.' (Rouse Date vith the painting w and fix it.' (Rouse ith limewater (Bar Date vith the painting w and fix it.' (Rouse	as to uncover every area where 1955:31) . 01/01/46 as to uncover every area where 1955:31) It is thought that the akan report, 1981). 01/01/46 as to uncover every area where 1955:31)

<u>Past Treatment</u>

Туре	STRUCTURAL REPAIRS	Date	01/01/47			
Person Comments	M.O.W. According to Rouse (1955:31) ' a comprehensive programme of repair and conservation has been carried out. This work included the filling up by a method of tamping, with tile stitches, of the several alarming settlement cracks, and the placing of a concealed concrete beam round the top of the whole building to tie it together. The lower portion, where no complications of painting hindered operations, was able to be grouted. Excavation of the base of the walls revealed a chamfered plinth round the whole structure.'					
<u>Past Treatr</u>	<u>nent</u>					
Туре	CLEANING	Date	01/04/82			
Person	K. Barakan					
Comments	mechanically removed.' (Bara There are also notes in the El poultices were used, stating: 'C [?] which disappears after pou	removed partially s of original paintir kan, 4/82) H files which indica Carbon tetrachloride ulticing and washin e and the end fo th r walls, were treat	with trichloroethane and ng covered by plaster which was nte that carbon tetrachloride e poultice: clear white greasy g off with carbon tetrachloride' e programme in 1991 the west			
Туре	CONSOLIDATION	Date	01/04/82			
Person	K. Barakan					
Comments	K. Barakan 'The eastern quarter of the ceiling where the condition was worse was restored during March-April Large areas are loose, the mortar underneath the plaster is decomposed and crumbling. There is very little adhesion of plaster to this mortar During the conservation process the original plaster was separated from repairs, loose parts were injected with calcium casein (Barakan 4/82) Presumably between this date and the end of the programme in 1991 the west wall, and perhaps parts of the south wall, were treated in the same way. However, there are no records of this treatment.					
Туре	FILLS/REPAIRS INSERTION	Date	01/04/82			
Person	K. Barakan					
	repairs, loose parts were inject with trichloroethane and mecha lime and yellow sand putty. Thi areas of new plaster will be ton when conservation of the ceilin	as are loose, the mere is very little ac on process the orig ed with calcium cal anically. Large crack is quarter of the ce ed with lime casein g area will be com and the end of the r walls, were treat	nortar underneath the plaster is dhesion of plaster to this inal plaster was separated from sein, wax was removed partially iks and cavities were filled with iling is now completed. The n wash and toned with colour pleted.'(Barakan, 4/82) e programme in 1991 the west			

<u>Past Treatment</u>

	-		
Туре	PRESENTATION/REINTEGRATION	Date	01/01/83
Person	K. Barakan		
Comments	1983? The west wall was worked on evidence of tratteggio retouching to t		
Proposed 1	Treatment		
Туре	FLAKE FIXING	Date	22/11/94
Person	JD, TM		
Comments	Some limited fixing may be required vulnerable to mechanical damage.	at low level, espe	ecially as this area is
Туре	MONITORING CONDITION	Date	22/11/94
Person	JD, TM		
Comments	The vault should be inspected for sta but a scaffold is required to fully asse		eas appear to be bulging,
Past Treatn	nent		
Туре	MONITORING CONDITION	Date	01/04/95
Person	Courtauld Institute/Engllish Heritage		
Comments	Longthorpe Tower was chosen as a p undertaken by the Conservation of W of Art and English Heritage every yea by Stephen Rickerby. Full graphic and undertaken, and the Survey Departm rectified photography for the entire ch treatment and further monitoring of th	fall Painting Depa ar. A team of four d photographic d ent at English He namber. Recomm	artment, Courtauld Institute r students was supervised ocumentation was eritage has produced

4 Audit Information: deterioration and damage, added materials, treatment

Property na	ame	LONGTHOR		₹			
Region		Midlands				County	Cambridgeshire
Location		Great Cham	ber				
Orientation	1	NORTH WA	LL INCLUDI	NG VAULT			
Century 1	4th	Date		Height (cm)520)	Width (cm)	475
DETERIO			GE				
Deterioratio	on phenom	<u>en</u> a					
Туре	delaminatio	on (render laye	er)				
Location	Apex of wa	11					
Comments	cm wide an dust and sa phenomeno such deterio	d 2 cm deep. Ind was noted on in 1991, wh	Air clearly bl on the desk en she assu t, there were	has occurred t ows through this below the loss. A med that masonr masonry bees el a.	hole, as (. Baraka y bees v	an accumula an noted this vere the caus	ation of e of
Туре	cracking						
Location	Render lay	er; from apex f	to above win	dow and into win	idow sof	fit and vault	
Comments		to past structi d in delaminat		ent. Some cracks nder layer.	extend	through repa	irs.
Туре	loss						
Location	East, centra	al, and lower p	arts of the w	all			
Comments		his has left ob		y partial dewaxir outlines of edge			S
Туре	pigment alto	eration					
Location	Throughout	, especially fle	esh tones				
Comments	Lead white	has partially a	Itered to plat	tnerite.			
Mechanical	l damage				_		
Туре	nail holes						
Location	Throughout						
Comments							

Comments

ADDED MATERIALS

Accretions

Accietiona	
Туре	dirt
Location	Surface, especially corners
Comments	As other walls not disfiguring
Туре	dust
Location	Surface
Comments	As other walls not disfiguring
Туре	cobwebs
Location	Upper west side
Comments	Hibernating moths. Several other moths noted in cupboard passage to house in south wall.
Coatings/C	overings
Туре	wax
Location	Surface
Comments	As other wall, traces of the wax preservative coating remain however, K. Barakan has not completed her de-waxing treatment. The full coating remains on the upper west side of the wall.
<u>Repairs</u>	
Туре	unidentified
Location	Throughout; see diagram
	There are numerous types and sizes of repairs. The upper wall and vault is extensively repaired.

TREATMENT Past Treatment UNCOVERING Date 01/01/45 Type Person Hugh Horrell (then tenant) Comments 'When the Home Guard finally vacated the tower, Mr. Horrell set about redecorating the room for his own use. In the course of his rough scraping down of the walls, he detached large flakes of distemper and limewash and saw that the underlying colour was extensive. He therefore proceeded with greater caution, and laboriously worked away until a number of figures had been revealed. He wisely stopped when any fragile or difficult part was reached. The discovery was reported to the owner... [who] authorized the work of full uncovering, repair and preservation... in 1946.' (Rouse 1955:1) Past Treatment APPLICATION OF COATING Date 01/01/46 Type E.W. Tristram, E.C. Rouse Person Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31) There are no direct references to the application of a wax preservative but this clearly relates to Tristram, as it was his standard method of treatment at the time. Barakan (in her report, 1981) states that the wax was applied in combination with limewater, but it also could have contained any of a number of organic additives. Туре **CLEANING** Date 01/01/46 Person E.W. Tristram, E.C. Rouse **Comments** 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31) 01/01/46 Туре CONSOLIDATION Date Person E.W. Tristram, E.C. Rouse Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31) It is thought that the consolidation was carried out with limewater (Barakan, 1981). **FILLS/REPAIRS INSERTION** Date 01/01/46 Type Person E.W. Tristram, E.C. Rouse Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it. At the same time plaster repairs were executed. In many cases, where there were serious settlement cracks or failures or unsuitable previous patching, this amounted almost to structural work. In the wheel subject, for instance, parts of the plaster were actually loose from the wall, and the number of repairs, large and small, amounted to over sixty.' (Rouse 1955:31) 01/01/46 Type PRESENTATION/REINTEGRATION Date Person E.W. Tristram, E.C. Rouse Comments 'Plaster repairs were toned down so as not to distract the eye, and in a few cases broken lines or areas were suggested by a light toning. Areas of completely perished plaster or miscellaneous patching (as in the vault) were colour-washed.' (Rouse 1955:31)

Туре	UNCOVERING	Date	01/01/46	
Person	E.W. Tristram, E.C. Rouse			
Comments	'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31)			
Past Treatr	nent			
Туре	STRUCTURAL REPAIRS	Date	01/01/47	
Person	M.O.W.			
Comments	of tamping, with tile stitches placing of a concealed conc together. The lower portion,	ed out. This work includes, of the several alarmin crete beam round the to where no complication grouted. Excavation of t	ded the filling up by a method ig settlement cracks, and the p of the whole building to tie it	
Past Treatn	nent			
Туре	CLEANING	Date	01/04/82	
Person	K. Barakan			
Comments	8 weeks - i.e. from the end of area (squared areas indicate repairs or plaster consolidat this season of treatment. There are also notes in the poultices were used, stating	laster consolidation and he tourist season is ove of October.' It is clear th e the extent of cleaning ion. The yearly campain files which indicate that : 'Carbon tetrachloride	I the repair of cavities The er and will last, as every year, 6- nat cleaning did begin in this), but there is no evidence of gns at Longthorpe ended after a carbon tetrachloride	
Туре	CONSOLIDATION	Date	01/04/82	
Person	K. Barakan			
	decomposed and crumbling mortar During the conserv repairs, loose parts were inju-	areas are loose, the mo . There is very little adh vation process the origin ected with calcium case ate and the end of the p	rtar underneath the plaster is lesion of plaster to this nal plaster was separated from pin' rogramme in 1991 parts of the	

Туре	FILLS/REPAIRS INSERTION	Date	01/04/82
Person Comments	K. Barakan 'The eastern quarter of the ceiling wh during March-April Large areas are decomposed and crumbling. There is mortar During the conservation pro- repairs, loose parts were injected wit with trichloroethane and mechanicall lime and yellow sand putty. This qua- areas of new plaster will be toned will when conservation of the ceiling area Presumably between this date and the north wall, were treated in the same treatment.	e loose, the mort s very little adhe ocess the origina h calcium caseir ly. Large cracks rter of the ceiling th lime casein wa a will be complet ne end of the pro	ar underneath the plaster is sion of plaster to this I plaster was separated from n, wax was removed partially and cavities were filled with g is now completed. The ash and toned with colour red.' gramme in 1991 parts of the
Proposed 1	<u>reatment</u>		
Туре	FILLS/REPAIRS INSERTION	Date	22/11/94
Person	JD, TM		
Comments	Repair of the hole at the apex of the be investigated from a scaffold.	wall appears urg	ent. However, this area must
Туре	GROUTING	Date	22/11/94
Person	JD, TM		
Comments	After inspection of the upper wall and to grout some areas.	d vault from scaf	folding, it may be necessary
Proposed 1	reatment		
Туре	UNSPECIFIED	Date	20/12/94
Person	JD, TM		
Comments	A full assessment of conservation recommendations are merely urgent appearance of the paintings could be campaign accompanied by repairs are	work required in considerably im	the short term. The proved by a limited cleaning
<u>Past Treatn</u>	<u>nent</u>		
Туре	MONITORING CONDITION	Date	01/04/95
Person	Courtauld Institute/English Heritage		
	Longthorpe Tower was chosen as a p undertaken by the Conservation of W of Art and English Heritage every yea by Stephen Rickerby. Full graphic an undertaken, and the Survey Departm rectified photography for the entire ch treatment and further monitoring of th	/all Painting Dep ar. A team of fou d photographic c ent at English H namber. Recomm	artment, Courtauld Institute r students was supervised locumentation was eritage has produced

4 Audit Information: deterioration and damage, added materials, treatment

Property n	ame	LONGTHORP	E TOWER		
Region		Midlands		County	Cambridgeshire
Location		Great Chambe	ſ		
Orientatior	1	SOUTH WALL	. INCLUDING VAULT		
Century 1	4th	Date	Height (cm)520	Width (cm) 478
DETERIO	RATION		E		
Deteriorati	<u>on phenon</u>	nena			
Туре	pigment a	Iteration			
Location	Throughou	ut, especially flesh	n tones		
Comments	Lead white	e has partially alte	ered to plattnerite.		
Туре	cracking				
Location	Render lay	yer, throughout			
Comments	there are I		especially above door, east sid g problems due to structural mo f the render layer.		
Туре	delaminati	ion (render layer)			
Location	Several an	reas, especially re	lated to cracks		
Comments	Pockets of	delamination rela	ated to cracks.		
Туре	loss				
Location	Centre, 1n	n high			
Comments	Appears to	be recent damag	ge (loss approximately 3 cm lor	ng)	
Туре	loss				
Location	Several ar	eas			
Comments	Old loss, p	ore-1946 conserva	ation		
Туре	general er	osion			
Location	Surface				
Comments	General at	prasion of the surf	face		
Туре	pitting (sur	face)			
Location	Upper wes	t side			
Comments	Small loss	es, or pitting, unkr	nown phenomenon. Possibly m	echanical dama	ge.

Type minor losses

Location Upper west side

Comments Small pits or losses, possibly an unknown deterioration phenomenon of the plaster or mechanical damage.

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ADDED MATERIALS

Accretions

Accretions	
Туре	dirt
Location	Surface
Comments	Adheres to remains of wax coating, not too disfiguring
Туре	dust
Location	Surface
Comments	Adheres to remains of wax coating, not too disfiguring
Туре	cobwebs
Location	Surface, especially corners
Comments	Adheres to remains of wax coating, not too disfiguring
Coatings/C	overings
Туре	wax
Location	Entire surface
Comments	Preservative applied by Rouse and Tristram c. 1946, noted by K. Barakan as 'wax in turpentine'. Coating has darkened and has resulted in some deterioration of the surface. Cleaning test squares of partially de-waxed painting - probably undertaken by K. Barakan- are visible on the south wall.
<u>Repairs</u>	
Туре	unidentified
Location	Throughout; see diagram
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Comments There are several types of repairs, varying from 17C pink hair plaster to the Rouse/Tristram repairs c.1946, and numerous smaller patches throughout.

TREATMENT Past Treatment UNCOVERING Date 01/01/45 Type Person Hugh Horrell (then tenant) Comments 'When the Home Guard finally vacated the tower, Mr. Horrell set about redecorating the room for his own use. In the course of his rough scraping down of the walls, he detached large flakes of distemper and limewash and saw that the underlying colour was extensive. He therefore proceeded with greater caution, and laboriously worked away until a number of figures had been revealed. He wisely stopped when any fragile or difficult part was reached. The discovery was reported to the owner... [who] authorized the work of full uncovering, repair and preservation... in 1946.' (Rouse 1955:1) Past Treatment 01/01/46 Type APPLICATION OF COATING Date E.W. Tristram, E.C. Rouse Person Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31). There are no direct references to the application of a wax preservative but this clearly relates to Tristram, as it was his standard method of treatment at the time. Barakan (in her report, 1981) states that the wax was applied following consolidation with limewater, but it also could have contained any of a number of organic additives. Type **CLEANING** Date 01/01/46 Person E.W. Tristram, E.C. Rouse Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31) CONSOLIDATION Date 01/01/46 Type E.W. Tristram, E.C. Rouse Person Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it.' (Rouse 1955:31) It is thought that the consolidation was carried out with limewater (see Barakan report, 1981). FILLS/REPAIRS INSERTION 01/01/46 Type Date E.W. Tristram, E.C. Rouse Person Comments 'The policy pursued in dealing with the painting was to uncover every area where painting survived and to clean and fix it. At the same time plaster repairs were executed. In many cases, where there were serious settlement cracks or failures or unsuitable previous patching, this amounted almost to structural work. In the wheel subject, for instance, parts of the plaster were actually loose from the wall, and the number of repairs, large and small, amounted to over sixty.' (Rouse 1955:31) PRESENTATION/REINTEGRATION Date 01/01/46 Type Person E.W. Tristram, E.C. Rouse Comments 'Plaster repairs were toned down so as not to distract the eye, and in a few cases broken lines or areas were suggested by a light toning. Areas of completely perished plaster or miscellaneous patching (as in the vault) were colour-washed.' (Rouse 1955:31)

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Туре	UNCOVERING	Date	01/01/46
Person	E.W. Tristram, E.C. Rouse		
Comments	'The policy pursued in dealing w painting survived and to clean a		
Past Treatr	nent		-
Туре	STRUCTURAL REPAIRS	Date	01/01/47
Person	M.O.W.		
Comments	together. The lower portion, whe	ut. This work inc the several alarm beam round the re no complicati ed. Excavation of	luded the filling up by a method ning settlement cracks, and the top of the whole building to tie it
Past Treatn	nent		
Туре	CLEANING	Date	25/10/65
Person	M. Keevil		
Comments	'[The Wheel of the Senses]Aft wall was cleaned with putty rubb difference to the general appear grime, the painting was silhouett background [on the south wall] the painted so very good result.'	er. This treatmen ance of the pain ed more strongly	nt made a considerable ling, by removing a layer of y against the light coloured
Туре	FILLS/REPAIRS INSERTION	Date	25/10/65
Person	M. Keevil		
Comments	'The Wheel of the Senses. A dar hand corner of the painting [sic] together with the lime putty supp sand and toned to harmonize wit cracks on this wall were treated i [on the south wall] many old crac lime putty and sand.'	this involved slig ort. The damage h the surroundin in the same way	ht loss of the painted surface was filled with lime putty and g colour. Other old damages and

<u>Past Treatment</u>

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Туре	CLEANING	Date	01/04/82
Person	K. Barakan		
Comments	'The eastern quarter of the ceilin during March-April wax was re mechanically There are areas mechanically removed' There are also notes in the files poultice was used, stating: 'Carb which disappears after poulticing	moved partially v of original paintin s which indicate t on tetrachloride p and washing off	vith trichloroethane and g covered by plaster which was nat a carbon tetrachloride poultice: clear white greasy [?] with carbon tetrachloride'
	Presumably between this date as wall, and perhaps parts of other there are no records of this treat visible on the south wall.	walls, were trea	ed in the same way. However,
Туре	CONSOLIDATION	Date	01/04/82
Person	K. Barakan		
Comments	'The eastern quarter of the ceilin during March-April Large areas decomposed and crumbling. The mortar During the conservation repairs, loose parts were injected	s are loose, the m ere is very little ac n process the orig d with calcium ca	nortar underneath the plaster is dhesion of plaster to this inal plaster was separated from sein'
	Presumably between this date a wall, and perhaps parts of the so there are no records of this treat	outh wall, were tre	
Туре	FILLS/REPAIRS INSERTION	Date	01/04/82
Person	K. Barakan		
Comments	'The eastern quarter of the ceilin during March-April Large areas decomposed and crumbling. The mortar During the conservation repairs, loose parts were injected with trichloroethane and mechan lime and yellow sand putty. This areas of new plaster will be toner when conservation of the ceiling Presumably between this date ar wall, and perhaps parts of the so	s are loose, the mere is very little ad n process the orig d with calcium can nically. Large crace quarter of the ce d with lime case in area will be com	ortar underneath the plaster is thesion of plaster to this inal plaster was separated from sein, wax was removed partially its and cavities were filled with ling is now completed. The n wash and toned with colour pleted.' programme in 1991 the west
	there are no records of this treat		
Proposed 1		201.10	
Туре	FILLS/REPAIRS INSERTION	Date	22/11/94
Person	JD, TM		
Comments	Minor repairs of cracks and smal	Il losses desirable	l.
Туре	GROUTING	Date	22/11/94
Person	JD, TM		2
		n. Small losses ir	

Туре	UNSPECIFIED	Date	20/12/94		
Person	JD, TM				
Comments	s A full assessment of conservation requirements should be made. The recommendations are merely urgent work required in the short term. The appearance of the paintings could be considerably improved by a limited cleaning campaign accompanied by repairs and consolidation.				
Past Treatn	<u>nent</u>				
Туре	MONITORING CONDITION	Date	01/01/95		
Person	Courtauld Institute/English Herita	ige			
Comments	Longthorpe Tower was chosen as undertaken by the Conservation of Art and English Heritage every by Stephen Rickerby. Full graphi undertaken, and the Survey Depa rectified photography for the entit treatment and further monitoring	of Wall Painting / year. A team o c and photograp artment at Engli re chamber. Rea	Department, Courtauld Institute f four students was supervised whic documentation was sh Heritage has produced commendations were made for		