

= Doctor Who missing episodes =

The Doctor Who missing episodes are the portions of the long @-@ running British science @-@ fiction television programme Doctor Who no longer held by the BBC . Between 1967 and 1978 the BBC routinely deleted archive programmes , for various practical reasons (lack of space , scarcity of materials , a lack of rebroadcast rights) . As a result of the cull , 97 of 253 episodes from the programme 's first six years are currently missing , primarily from seasons 3 through 5 , leaving 26 serials incomplete . Many more were considered lost until recovered from various sources , mostly overseas broadcasters .

Doctor Who is not unique in its losses , as many broadcasters regularly cleared their archives in this manner . Until the BBC changed its archiving policy in 1978 , thousands of hours of programming , in all genres , were deleted . Other affected BBC series include Dad 's Army , Z @-@ Cars , The Wednesday Play , Steptoe and Son , and Not Only ... But Also . ITV regional franchises also deleted many programmes , including early videotaped episodes of The Avengers .

Doctor Who is unusual , however , in that each of its 97 missing episodes survives in audio form , recorded off @-@ air by fans at home . Most episodes are also represented by stills or short video clips . Furthermore , after careful restoration , all 1970s episodes exist in full colour , which is not always the case for other series .

Efforts to locate missing episodes continue , both by the BBC and by fans of the series . Recovered episodes have been extensively restored for release on VHS and DVD ; surviving soundtracks have been released on cassette and CD . Many missing episodes have had their visuals reconstructed , either through specially commissioned animation or use of surviving footage and photographs .

= = Background = =

Between approximately 1967 and 1978 , large quantities of videotape and film stored in the BBC 's Engineering department and film libraries , respectively , were wiped or destroyed to make way for newer programmes . This happened for several reasons , primarily the belief that there was no practical value to its retention .

The actors ' union Equity had actively fought against the introduction of TV recording since the 1950s , when it first became a practical proposition . Prior to the development of workable television recording , if a broadcaster wished to repeat a programme (usually a one @-@ off play) , they had to re @-@ hire the actors to perform it again , live , for additional fees . Equity 's concern was that if broadcasters kept recordings of the original performances , they would be able to re @-@ broadcast them indefinitely , which would reduce the amount of new production and threaten the livelihoods of its members . Although Equity could not prevent recording altogether , it added standard clauses to its members ' contracts that stipulated that recordings could only be repeated a limited number of times within a specific timeframe , and deliberately set the fees for further use so high that broadcasters would consider it unjustifiable to spend so much money repeating an old programme rather than making a new one . Consequently , recordings whose repeat rights had expired were considered to be of no further domestic use to the broadcasters .

Most Doctor Who episodes were made on two @-@ inch videotape for initial broadcast and then telerecorded onto 16 mm film by BBC Enterprises for further commercial exploitation . Enterprises used 16 mm for overseas sales as it was considerably cheaper to buy and easier to transport than videotape . It also circumvented the problem of different countries ' incompatible video standards , as film was a universal medium whereas videotape was not . The BBC had no central archive at the time ; the Film Library kept programmes that had been made on film , while the Engineering Department was responsible for storing videotapes . BBC Enterprises only kept copies of programmes they deemed commercially exploitable . They had little dedicated storage space , and tended to place piles of film canisters wherever they could find space for them at their Villiers House property .

The Engineering Department had no mandate to archive the programme videotapes they held , although typically they would not be wiped or junked until the relevant production department or

BBC Enterprises indicated that they had no further use for the tapes . The first Doctor Who master videotapes to be junked were those for the serial The Highlanders , which were erased on 9 March 1967 , a mere two months after Episode 4 's original transmission . Further erasing and junking of Doctor Who master videotapes by the Engineering Department continued into the 1970s . Eventually , every master videotape of the programme 's first 253 episodes (1963 ? 69) was destroyed or wiped . The final 1960s master tapes to be erased were those for the 1968 serial Fury from the Deep , in late 1974 .

Despite the destruction of these masters , BBC Enterprises held a near @-@ complete archive of the series in the form of their 16 mm film telerecording copies until approximately 1972 . From around 1972 to 1978 , BBC Enterprises also disposed of much of their older material , including many episodes of Doctor Who .

= = = The purge of the archives = = =

Enterprises ' episodes were usually junked because their rights agreements with the actors and writers to sell the programmes abroad had expired . With many broadcasters around the world now switching to colour transmission , it was not deemed worthwhile extending agreements to sell the older black @-@ and @-@ white material .

The BBC Film Library , meanwhile , had no responsibility for storing programmes that had not originated on film , and there were conflicting views between the Film Library and BBC Enterprises over which party held the responsibility for archiving programmes . As each body believed it the other 's responsibility to archive the material , each thought nothing of destroying its own copies as necessary . This lack of communication contributed to the erasure of much of the Corporation 's film archive of older black @-@ and @-@ white programming . While thousands of other programmes have been destroyed in this way around the world , the missing Doctor Who episodes are probably the best @-@ known example of how the lack of a consistent programme archiving policy risks permanent loss .

Following the purges and subsequent recoveries , gaps in the Doctor Who archive are spread unevenly through its first eleven seasons . Major losses mostly affect First and Second Doctor serials ; although two stories are missing just one episode each (The Tenth Planet , Episode 4 and The Web of Fear Episode 3) , other stories are lost altogether . Patrick Troughton 's era as the Second Doctor is particularly affected ; of the fourteen stories comprising his first two seasons , only The Tomb of the Cybermen and The Enemy of the World are complete , and these only exist due to telerecordings later returned from Hong Kong and Nigeria , respectively .

All stories starring Jon Pertwee as the Third Doctor are complete , though many episodes no longer survive on their original videotapes and have needed to be restored to colour using other methods . In order of original transmissions , the very last Doctor Who master videotapes to be wiped were the first episodes of the 1974 serials Invasion of the Dinosaurs and Death to the Daleks . The latter was recovered from overseas , initially from a tape in the NTSC format , and later in the original PAL format on a tape returned from Dubai .

For four years , Episode 1 of Invasion of the Dinosaurs was the only Pertwee episode to be entirely missing from the archives , until a black @-@ and @-@ white 16 mm copy was returned to the Corporation in June 1983 . The story was released on DVD with a partially recolourised version of Episode 1 , alongside a higher @-@ quality monochrome transfer of the episode , in The UNIT Files box set . With one exception , archival holdings from Death to the Daleks Episode 2 onwards are complete on the original broadcast videotapes .

Unrelated to the regular archive purges , the final shot of The Deadly Assassin Episode 3 (1976) has been excised from the master copy . The shot was removed after its initial UK transmission , following complaints from Mary Whitehouse of the National Viewers ' and Listeners ' Association . Subsequent repeats and commercial releases have restored the shot from off @-@ air video copies .

= = = The end of the junkings = = =

Internally , the wiping policy officially came to an end in 1978 , when the means to further exploit programmes by taking advantage of the new market for home videocassette recordings started to become apparent . The prevailing view had also begun to shift toward the attitude that archive programmes should , in any case , be preserved for posterity and historical and cultural reasons .

The BBC Film Library was turned into a combined Film & Videotape Library for the preservation of both media . The Film Library at the time held only 47 episodes of 1960s Doctor Who ; they had once held 53 , but six episodes had either been junked or gone missing . Junkings at BBC Enterprises , however , continued until the intervention of Ian Levine , a record producer and fan of the programme . Following the transfer of episodes still held by Enterprises , there were 152 episodes of Doctor Who no longer held by the BBC , although subsequent efforts have reduced that number to 97 .

Arguably the most sought @-@ after lost episode is Episode 4 of the final William Hartnell serial , The Tenth Planet , which ends with the First Doctor 's regeneration into the Second . The only portion of the episode still in existence , bar a few poor @-@ quality silent 8mm clips , is the final 27 seconds , comprising the regeneration itself and a few seconds leading up to it . The sequence had been shown in a 1973 episode of Blue Peter , and was retained in that show 's archive .

Even after the end of the purge , other archive issues persist . Serials from Seasons 22 ? 26 were shown in Germany , with soundtracks dubbed into German language ; some of these episodes no longer exist in German television archives .

= = = Continuing search = = =

On 20 April 2006 it was announced on Blue Peter that a life @-@ sized Dalek would be given to anyone who found and returned one of the missing episodes .

In January 2007 ITV began a campaign called " Raiders of the Lost Archive " and although the campaign was run by ITV , they were also looking to find Doctor Who episodes and other BBC shows . One episode of the Raiders of the Lost Archive show aired in January 2007 and a further two episodes in July 2009 .

In December 2012 the Radio Times listings magazine announced it was launching the hunt for more Doctor Who episodes , to tie @-@ in with the show 's 50th anniversary . The Radio Times issued its own list of missing episodes . The magazine has also set up an email address specifically for Doctor Who missing episodes that the public can use to contact it if they have any information .

= = = Compared with other series = = =

Compared with other BBC series broadcast in the 1960s , Doctor Who is well @-@ represented in surviving episodes . Of the 253 episodes broadcast during the 1960s , 156 still exist ? mainly due to copies produced for overseas sales . For example , Seasons 1 and 2 , the most widely @-@ sold abroad of the 1960s era , are missing only 9 and 2 episodes , respectively . By contrast , the less well @-@ sold Seasons 4 and 5 respectively have no , and only 2 , complete serials (The Tomb of the Cybermen and The Enemy of the World) . Doctor Who 's popularity and high profile have also helped to ensure the return of episodes which , for other less well @-@ remembered programmes , might never have occurred .

Of all ongoing BBC series from the 1960s , only Steptoe and Son has a better survival record , with all episodes existing in some form . Other long @-@ running programmes have few or no surviving episodes ; for example , the soap operas Compact (6 out of 43 episodes surviving) , The Newcomers (2 out of 375) , and United ! (0 out of 147) .

Doctor Who is also comparatively rare amongst contemporaries in that all of its 1970s episodes exist as masters or telerecordings , while other series such as Z @-@ Cars and Dixon of Dock Green are missing episodes from as late as 1975 .

= = List of missing episodes = =

As of October 2013 , 97 episodes are unaccounted for . The missing episodes span 26 serials , including 10 full serials . Most of the gaps are from seasons 3 , 4 , and 5 , which currently lack a total of 79 episodes across 21 (out of 26) serials . By contrast , seasons 1 , 2 , and 6 are missing a total of just 18 episodes , across 5 (out of 25) serials . Of the missing stories , all but three ? Marco Polo , " Mission to the Unknown " , and The Massacre of St Bartholomew 's Eve ? have surviving clips . All episodes also have full surviving audio tracks .

While the Patrick Troughton era is missing more episodes (53 as compared to 44 for William Hartnell) , there are more Hartnell stories completely missing (6 as compared to 4) . Serials highlighted in red are missing all episodes . Serials highlighted in yellow are missing more than half of their episodes . All others listed are missing at least one , but no more than half , of their episodes .

== Orphaned episodes ==

Serials that are over 50 % complete (e.g. , The Reign of Terror , The Tenth Planet) are issued as standalone releases , with the missing episodes bridged using animation , visual reconstructions , or narration to the camera . Surviving episodes which form 50 % or less of a complete story ? referred to as " orphaned " episodes ? have been released by the BBC in compilations (e.g. , Lost in Time) , or as extras on releases of complete serials . A few four @-@ episode serials of which 50 % remain (e.g. , The Underwater Menace , The Moonbase) have also been issued as standalone releases .

== Unaired missing episodes ==

In addition to the official list of missing episodes , also missing is the original Episode 1 of The Daleks . At some point after the recording , it was discovered that a technical problem had caused backstage voices to be heard on the resulting videotape ; in early December 1963 , the episode was remounted with a different costume for Susan . The only surviving portion is the reprise at the beginning of Episode 2 .

Planet of Giants is another odd example , having originally been recorded as four episodes , with the first three directed by Mervyn Pinfield , and the last one by Douglas Camfield . To create a faster @-@ paced climax , Episodes 3 & 4 were combined and reduced to form a single episode , which was credited to Camfield only . This decision , made by then @-@ Head of Drama Sydney Newman , resulted in a one @-@ episode gap at the end of the second production block (leading to the creation of " Mission to the Unknown ") ; the unused portions of Episodes 3 and 4 are believed to have been destroyed .

The serial 's 2012 DVD release features a reconstruction of the original episodes , directed by Ian Levine . The production rebuilds the deleted scenes using CGI , footage from elsewhere in the serial , and re @-@ recorded dialogue from Carole Ann Ford , William Russell , and actors impersonating the rest of the cast .

== Recovery ==

When the BBC 's complete holdings (both the BBC Film & Videotape Library and BBC Enterprises) were first audited in 1978 , the following 50 episodes were absent from their collective archives , but have subsequently been returned to the Corporation through various methods . The nine stories highlighted have all episodes existing as a result . Except where indicated , all episodes were returned as 16 mm telerecording negatives or prints .

=== BBC holdings ===

===== Film Library oddities =====

When the BBC audited its Film Library in 1977 , 47 episodes were found to exist . These Film Library copies were a random sampling of viewing prints for various episodes , along with seven of the nine episodes that had originally been telerecorded onto film for editing and / or transmission , rather than recorded to videotape . These film @-@ originated masters were stored in the Film Library , rather than in the Engineering Department with the videotapes . The presence of the viewing prints is less easily explained .

The Film Library 's remit covers material originated on film , not on videotape ? yet it lacked two of the film @-@ originated episodes of Doctor Who , while it held such unexplained material as 16 mm copies of The Tenth Planet Episodes 1 ? 3 , presumably viewing prints which were mistakenly returned to them at some point instead of BBC Enterprises . Most surprisingly of all , they also retained a 16 mm telerecording copy of the original untransmitted pilot , presumably a viewing print made in 1963 and subsequently lodged at the Library .

The Film Library also held high @-@ quality original film sequences made for insertion into videotaped episodes . Some of these , such as those from Episodes 1 ? 2 of The Daleks ' Master Plan , survive to this day . Other junked sequences were mistakenly entered into a film library computer system , leading to an impression that they had existed for years afterward , and inaccurate speculation that the BBC was still destroying clips well into the early 1980s .

= = = = Engineering Department = = = =

Following the establishment of the Film and Videotape Library , an audit of the Engineering Department found 60 of the 128 Third Doctor episodes starring Jon Pertwee , which in addition to the Film Library 's copies of the film @-@ originated Spearhead from Space , brought that Doctor 's episode count up to 64 out of 128 .

= = = = Villiers House = = = =

In 1978 , Ian Levine located another 65 episodes from the show 's first six seasons (plus fourteen previously existing episodes) , at the BBC Enterprises film vault at Villiers House in London . The episodes comprise 17 full serials , mostly from seasons 1 and 2 . According to Levine , many of the prints were flagged to be junked that very day .

Levine alerted the new Film and Videotape Library 's archive selector , Sue Malden , who paid her own visit to Villiers House and found every remaining Jon Pertwee episode (albeit as a 16 mm black @-@ and @-@ white telerecording) , except for two from his final season : Death to the Daleks and Invasion of the Dinosaurs , Episodes 1 .

In August 1988 , ten years after Levine 's and Malden 's visits , Episodes 1 and 4 ? 6 of the six @-@ part story The Ice Warriors , were discovered in a cupboard at Villiers House when the Corporation was in the process of moving out of the building .

= = = = National Film and Television Archive = = = =

Shortly after the junking process was halted and the BBC established its Film and Videotape Library for the purpose of storage and preservation , archive selector Sue Malden began to audit what material remained in the BBC 's stores . When investigations revealed large gaps in the collection , Malden turned her inquiries to the National Film and Television Archive ? which promptly returned three full Second Doctor serials ? The Dominators , The Krotons , and The War Games , adding seven more episodes and completing two of those serials . These all were standard 16 mm film telerecordings with the exception of The Dominators Episode 3 , which was a 35 mm print .

Episodes 4 and 5 of The Dominators originated from a foreign broadcaster , and had been slightly edited ; the missing footage was restored later , through a mix of censor clips and more complete prints held by private collectors .

===== Overseas broadcasters that purchased missing episodes =====

An appeal to broadcasters in other countries who had shown the programme (notably Australia and African nations such as Nigeria) produced " lost " episodes from the archives of their television companies . The Tomb of the Cybermen , for example , was recovered in this manner from Rediffusion Television in Hong Kong in 1992 . Of the 50 episodes recovered since the original BBC audit of its holdings , 25 have been returned from overseas broadcasters :

Note that on occasion some broadcasters purchased Doctor Who telerecordings (usually 16 mm) but subsequently cancelled the order .

Nigerian television has been a particularly fruitful source for episode recovery ; a total of 15 out of the 50 episodes recovered since 1978 have been reclaimed from Nigeria , leading to the completion of three full serials (The Time Meddler , The War Machines , and The Enemy of the World) .

===== Private collectors =====

Several episodes have been returned by private film collectors , who at some point acquired 16 mm film prints intended for sale to foreign broadcasters .

===== The Abominable Snowmen and Invasion of the Dinosaurs =====

Roger Stevens was working for the BBC as a film editor in the 1980s , and one morning , as he was travelling to work by train , he bumped into a BBC co -@- worker and they began to talk about Doctor Who episodes . The BBC projectionist mentioned that he had nine episodes of Doctor Who that Stevens could buy for £ 25 . In the summer of 1981 , Stevens bought The Space Museum episode one , The Abominable Snowmen episode two , The Moonbase episode four , Invasion of the Dinosaurs episode one , and three episodes of Carnival of Monsters . Stevens then contacted Ian Levine to find out what was missing from the BBC archive ; Levine confirmed that The Abominable Snowmen episode two and Invasion of the Dinosaurs episode one were currently missing .

Stevens gave these prints to Levine , who returned The Abominable Snowmen to the BBC in February 1982 , although he held back Invasion of the Dinosaurs from the BBC for a while . This was later returned to the BBC by Levine in June 1983 , who then made a copy and returned the original to Levine .

===== The Reign of Terror =====

The Reign of Terror was recovered by Bruce Campbell when he attended a film fair in the 1980s and began chatting to a stall holder who informed him that one of his regular customers had in their possession The Reign of Terror episode six . Campbell got in contact with the customer , bought the missing episode for £ 50 , and then , in May 1982 , donated it to the BBC through Ian Levine .

===== The Wheel in Space =====

The Doctor Who Magazine (April 1984 , issue 87) ran a story about a rumour of a missing Doctor Who episode that was in Portsmouth ; this led to The Wheel in Space episode three being returned to the BBC in April 1984 by David Stead to allow for a copy to be made . The original was returned to Stead and released on VHS in 1992 with poor results . Later the print was borrowed again and a new copy made using D3 videotape . Stead recollects that he purchased the episode for £ 15 .

===== The Faceless Ones and The Evil of the Daleks =====

In 1982 , novice film collector Gordon Hendry purchased 16 mm copies of The Faceless Ones , episode 3 , and The Evil of the Daleks , episode 2 , from a film fair in Buckingham . At that time

Hendry was unaware of the episodes ' value (only one episode of The Faceless Ones and none of The Evil of the Daleks were known to exist) .

In 1985 , a cinema owner in Brighton persuaded Hendry to lend him the films , so as to screen the episodes for profit during Panopticon VI . Saied Marham , an associate of Hendry 's , visited Panopticon to generate interest in the showing , only to be dismissed as a hoaxster .

After the event , Paul Vanezis spent 15 months attempting to retrieve the episodes from Marham . Eventually in 1987 , a charity fundraising convention called Tellycon aired The Faceless Ones , episode 3 , in tribute to the recently deceased Patrick Troughton .

In the following weeks , Vanezis and Ian Levine negotiated the return of both episodes to the BBC archive .

===== The Crusade =====

Although the New Zealand Broadcasting Corporation received copies of The Crusade , it never broadcast the story due to a prohibitive rating from the censor board . After rejecting the serial , NZBC never returned its film prints to the BBC or actively destroyed them .

In 1998 collector Bruce Grenville purchased a 16 mm copy of The Crusade episode 1 from a stall at a New Zealand film fair , containing various material previously rescued from a rubbish tip . Through a series of chance meetings , the episode eventually was returned to the BBC in January 1999 .

===== Galaxy 4 and The Underwater Menace =====

In 1975 , the Australian Broadcasting Corporation returned all eight broadcast prints of Galaxy 4 and The Underwater Menace to the BBC to be disposed of . In the mid @-@ 1980s , former ITV engineer Terry Burnett purchased episode 3 of Galaxy 4 and episode 2 of The Underwater Menace from another collector , unaware of their value (the only extant episode of the former serial , and one of just two from the latter) . In December 2011 , after a chance encounter with Doctor Who Restoration Team member Ralph Montagu , Burnett returned the episodes to the BBC .

===== Other sources =====

===== The Daleks ' Master Plan =====

The Daleks ' Master Plan never was sold abroad ; only Australia requested viewing copies (excepting Episode 7 , " The Feast of Steven ") , and eventually declined to purchase the serial . The fate of these viewing prints is currently unknown .

Nevertheless , three out of the serial 's twelve episodes have been recovered . 16 mm copies of episodes 5 and 10 were returned in the early 1980s , under unclear circumstances (with rumour claiming they were found in the basement of a Mormon church) . Episode 2 was returned in 2004 by former BBC engineer Francis Watson . He had come across the film in the 1970s , while clearing a projector testing room at the BBC 's Ealing Studios . Instead of disposing of the film as instructed , he brought it home ? eventually to return it to the Corporation when he realised the value of the material .

===== The Enemy of the World and The Web of Fear =====

Following months of rumours , in October 2013 a BBC press conference announced the return of a total of 11 episodes (two previously existing) from a television relay station in the city of Jos , Nigeria . In the course of his work abroad , Philip Morris of Television International Enterprises Archives had discovered episodes 1 @-@ 6 of The Enemy of the World and episodes 1 @,@ 2 @,@ 4 @,@ 5 @,@ 6 of The Web of Fear . The return of the nine missing episodes was the single largest recovery of Doctor Who episodes in 25 years , resulting in only the second full serial from

Troughton 's first two seasons to be restored to the BBC .

Both serials were promptly released on iTunes , with DVD releases following over the next few months . Both on the iTunes and the DVD release , episode 3 of The Web of Fear was represented by a tele @-@ snap reconstruction , edited by John Kelly . Later , in September 2015 , Morris revealed that episode 3 had been part of the same find , but that by the end of protracted negotiations for the return of the film cans , the episode had disappeared from the cache ; he presumes it was sold to a private collector .

= = = Incomplete recovered episodes = = =

Of the 50 recovered episodes , several are missing short segments ? due either to overseas censorship or to damage to the surviving film print . The following table shows all affected episodes , and the total duration of missing material .

= = = Clips = = =

Of the 97 missing episodes , 36 are represented by short " orphan " clips , recovered from various sources . These clips span 17 of the 26 serials affected by missing episodes , 7 of which are otherwise completely missing . The only serials lacking any footage whatsoever are Marco Polo , " Mission to the Unknown " , and The Massacre of St Bartholomew 's Eve . The following table shows all recovered excerpts , together with which pertinent episodes , format of the clips , and the source of recovery . Otherwise missing serials are highlighted in red .

= = = = = Excised clips = = = = =

Some overseas viewing prints were physically edited for content by local censor boards , prior to transmission . Hence , episodes recovered from these sources (Australia , New Zealand) are missing these segments .

Later discoveries turned up a large number of excised clips , held by interested parties as proof of the edits . In October 1996 , Australian Doctor Who fans Damian Shanahan and Ellen Parry discovered a collection in the records of the National Archives of Australia , provided as evidence by the Commonwealth Film Censorship Board (now the Classification Board) . These clips include The Smugglers , episodes 1 , 3 @-@ 4 ; The Highlanders , episode 1 ; The Underwater Menace , episodes 2 , 4 ; The Macra Terror , episode 3 ; Fury From The Deep , episodes 2 , 4 @-@ 5 ; and The Wheel In Space , episode 4 .

The clips from The Underwater Menace , episode 2 were later found to precisely match the edits to the print discovered in late 2011 , suggesting that the recovered episode was exactly the same print that had been censored decades before .

In an interview for the fanzine The Disused Yeti , Shanahan stated that although he and Parry had found paper records relating to the censoring of early to mid William Hartnell stories , the excised portions for all stories from An Unearthly Child to The Gunfighters had been destroyed some time prior to Shanahan and Parry 's investigation .

In 2002 , New Zealand fan Graham Howard uncovered excised clips from The Web of Fear and The Wheel in Space , episode 5 .

= = = = = 8mm clips = = = = =

A fan in Australia has returned small excerpts of off @-@ screen footage , recorded from repeat showings using an 8mm cine film camera . The missing episodes covered include The Reign of Terror , episode 4 ; Galaxy 4 , episode 1 ; The Myth Makers , episodes 1 @-@ 2 , 4 ; The Savages , episodes 3 @-@ 4 ; The Tenth Planet , episode 4 ; The Power Of The Daleks , episodes 1 @-@ 2 ; The Macra Terror , episode 3 ; and The Faceless Ones , episode 2 .

===== From other Doctor Who episodes =====

Due to the show 's habit of repeating cliffhanger footage , sometimes missing episode material can be found in surviving neighbor episodes . Episode 2 of The Daleks uses a prefilmed reprise from the original recording of Episode 1 , which later had to be remounted ; the original version of Episode 1 is presumed to have been destroyed .

A brief clip from Episode 4 of The Crusade exists at the very start of The Space Museum . Episode 1 of the latter serial begins with the characters in period costume , briefly frozen in place . An off @-@ camera cough heard on both soundtracks shows that the clip was a filmed insert from the previous (and currently missing) episode .

In its lead @-@ in to an upcoming repeat , The Wheel in Space episode 6 contains a short three @-@ frame clip from The Evil of the Daleks episode 1 , alongside a reprise from the existing episode 2 of that serial .

Other episodes contain straight excerpts from earlier serials , such as episode 10 of The War Games , which employs model shots from the first episodes of Fury from the Deep and The Wheel in Space .

===== From other television programmes =====

Clips from some missing episodes also survive due to their use in other surviving programmes . For example , excerpts from Episode 4 of The Daleks ' Master Plan were used in a 1973 edition of Blue Peter , and scenes from The Power of the Daleks in an Australian programme called Perspective : C for Computer .

In 2005 , two further short clips from The Power of the Daleks ? along with a higher @-@ quality version of one of the extant scenes ? were discovered in a 1966 episode of the BBC science series Tomorrow 's World . The clips , lasting less than 10 seconds each and on film (as opposed to film recordings) , came to light when the Tomorrow 's World segment was broadcast as part of the 11 September 2005 edition of the clip @-@ based nostalgia show Sunday Past Times on BBC Two . After being alerted to the footage , Paul Vanezis of the Doctor Who Restoration Team tracked down the uncut version of the clip .

The 1977 documentary Whose Doctor Who indirectly led to a lengthy excerpt from " Four Hundred Dawns , " episode 1 of the 1965 serial Galaxy 4 . The film 's producers used an excerpt from a viewing print of the episode , which they further cut down in the editing . Rather than discard the unused portion , the film 's advisor Jan Vincent @-@ Rudzki asked to keep the film trims . Later in the 1990s , Vincent @-@ Rudzki returned the clip to the archives . At a total of 5m 53s , this clip is the longest piece of surviving footage from an otherwise missing episode , accounting for a quarter of the total running time .

Apart from actual episode footage , rare behind @-@ the @-@ scenes material also was discovered for The Smugglers , The Evil of the Daleks , The Abominable Snowmen , and Fury from the Deep . Also from the latter serial exists some raw footage from the filming of Episode 6 , featuring some alternate camera angles from what was eventually broadcast .

===== Audio soundtracks =====

Though numerous episodes are still missing , full @-@ length audio soundtracks for all missing episodes are held by the BBC . These come from off @-@ air recordings made by fans , often made by use of a microphone attached to a tape recorder placed close to the television set . While the quality of these off @-@ air recordings varies greatly , multiple fan recordings exist for every episode .

Starting in the early 1990s , the BBC began to release existing audio of serials with missing episodes , with linking narration provided by former series actors such as Jon Pertwee , Tom Baker , Colin Baker , Peter Purves , and Frazer Hines . By December 2005 , the soundtracks for all of the missing episodes had been released , albeit with copyright @-@ uncleared music replacements

where necessary (e.g. , a Beatles song in Evil of the Daleks) , slightly rejigged sequences for reasons of clarity , and with overdubbed narration .

Between 2010 ? 12 BBC Audiobooks collected the individual narrated soundtracks in a series of five CD box sets , entitled " Doctor Who : The Lost TV Episodes . " For the sets , some serials (such as The Evil of the Daleks) were re @-@ released with improved audio restoration , changed linking narration , and in some instances with scenes unavailable in the first release . In addition to the soundtracks , the sets include special features such as the Archive on 4 documentary , " Doctor Who - The Lost Episodes " and high @-@ quality scans of the original camera scripts in PDF format .

For more information , see List of Doctor Who audio releases .

= = Restoration = =

For the first eleven seasons of Doctor Who , often the surviving materials are in a very different format or condition from their original broadcast masters . Surviving 1960s material is recorded on film stock of varying quality , while early 1970s material is available in a patchwork of professional and consumer formats . To present the material in a form approximating its original broadcast masters requires extensive technical work , and a certain amount of invention .

= = = Motion restoration = = =

In its original form , the videotape used to record Doctor Who captures images at 50 interlaced fields per second , resulting in a smooth , " live " feel to motion . To transfer the episodes to film , the film camera is timed to combine two video fields in each frame , converting 50 fields to 25 frames per second ; on playback , the omission of in @-@ between images results in a choppy " film " style motion . To recreate the original " live " video feel , early telerecorded episodes are processed through a digital tool known as VidFIRE , which approximates the missing motion between film frames .

In addition to the telerecorded material , some early 1970s material survives only , or in color only , on NTSC videotapes produced for North American transmission (e.g. , TV Ontario and CKVU in Vancouver) . NTSC runs at a different framerate than PAL video , and has a different number of scanlines . The conversion process used in the 1970s was primitive by modern standards , resulting in a noticeable amount of picture and motion loss . Converting the NTSC tapes back to PAL introduces more artifacts , creating a blurry picture and juddering motion . To rectify the problem , in 2005 a new Reverse Standards Conversion process , which attempts to unpick the original video conversion , was introduced for the DVD release of The Claws of Axos .

= = = Colour restoration = = =

Several early 1970s colour serials , starring Jon Pertwee , were retained only as black @-@ and @-@ white film prints . In addition to the motion issue shared by all telerecorded episodes , for years the loss of colour presented a major challenge for restoration .

Some of the telerecorded Pertwee episodes also survive on NTSC colour videotapes , recorded over @-@ air on consumer hardware . In the early 1990s , an early form of the Doctor Who Restoration Team attempted to pair the low @-@ resolution colour signal from these sources with the high @-@ resolution black @-@ and @-@ white signal from the black @-@ and @-@ white film recordings . In this way , several Jon Pertwee stories were returned to a rough form of colour : Doctor Who and the Silurians , Terror of the Autons , and The Dæmons . Off @-@ air NTSC colour tapes were also recovered for all of The Ambassadors of Death , but were considered of too poor a quality to permit more than a partial restoration .

= = = = Colour recovery = = = =

In 2007 , BBC archive specialist James Insell established the Colour Recovery Working Group , an online project to find new ways of restoring black @-@ and @-@ white telerecordings to colour . In 2008 , Reverse Standards Conversion inventor Richard Russell , developed a technique involving the use of chroma dots embedded in the black @-@ and @-@ white signal to recreate the missing color . The technique was pioneered , enhanced by traditional computer colourisation , on episode 3 of Planet of the Daleks .

Subsequently , chroma dots were used to restore the colour to Episodes 2 ? 4 , 6 , and 7 of The Ambassadors of Death and episodes 2 ? 5 of The Mind of Evil . Episode 1 of Invasion of the Dinosaurs presented a unique challenge , in that the chroma dots only contained red and green colour information , requiring that blue be added manually . Given the rough result , the DVD includes both the reconstructed colour and the black @-@ and @-@ white version .

Unfortunately , episode 1 of The Mind of Evil contains no colour information . In principle , BBC engineers were supposed to filter out the chroma dots upon telerecording , to create a cleaner picture . In most cases they failed to do so , allowing the colour recovery process to work . For this one episode , the filter had been correctly applied ? so there was no colour to recover . To complete the serial for DVD , the episode was manually colourised by Stuart Humphries and Peter Crocker ? thereby returning the final Pertwee episode to its original colour presentation .

= = = Reconstruction = = =

In addition to short video clips and audio soundtracks , for many episodes off @-@ screen photographs ? known as " tele @-@ snaps " ? exist , taken by photographer John Cura . From the 1940s to the 1960s , Cura was hired by various interested parties to document the transmission of many popular TV programmes , including Doctor Who . Typically the photographs were used for promotion , or as keepsakes for cast and crew in the days before home video recorders . In many cases , they form the only remaining visual record of missing television programmes .

Since the late 1990s , fan groups such as Loose Cannon Productions have reconstructed the missing episodes , using original camera scripts to match Cura 's tele @-@ snaps and other visual material to the surviving audio tracks . Although technically infringing copyright , these " recons " generally have been tolerated by the BBC , provided they are not sold for profit .

" Official " high @-@ quality recons have also been used on commercial releases , including cut @-@ down reconstructions ? The Ice Warriors VHS (a 12 @-@ minute " highlights " reconstruction bridging the missing Episodes 2 and 3) ; and Marco Polo (a 30 @-@ minute reconstruction on The Beginning DVD box set) ? and full @-@ length presentations , including The Tenth Planet VHS (containing a full reconstruction of the missing Episode 4) ; Galaxy 4 (a reconstruction of the three missing episodes to accompany the recently recovered episode 3 , " Air Lock , " presented on The Aztecs Special Edition DVD) ; The Web of Fear digital and DVD releases (containing a reconstruction of Episode 3 , alongside the rest of the newly rediscovered serial) .

In June 2005 , BBC Audio released a reconstruction of The Power of the Daleks as part of their " MP3 CD " line . When played on a home PC , the disc contained the same audio content as the previous audio CD release , synchronized with a Macromedia Flash slideshow of tele @-@ snaps and publicity photographs . For technical reasons , the surviving clips could not be included . Due to poor sales , future planned releases in this format were abandoned .

= = = Animated episodes = = =

In several cases , to " complete " serials with only one or two missing episodes , producers of the Doctor Who DVD range have commissioned original black @-@ and @-@ white animation , synced to the programme 's original audio tracks .

The first such effort , Cosgrove Hall 's animation of The Invasion episodes 1 and 4 , was released to DVD alongside the surviving episodes in November 2006 . The animation had been paid for by an earlier surplus in the Doctor Who website budget , allowing it to be used in the DVD release as a test for the concept , at no extra cost . Despite the DVD 's success , the sales were not high enough

to offset the animation cost for any future collaboration . Eventually other animation studios were commissioned to continue the reconstruction . In June 2011 , 2 Entertain announced that the missing episodes 4 and 5 of The Reign of Terror would be animated by Planet 55 Studios , using the " Thetamation " process . The serial was released on DVD in January 2013 . Planet 55 would later go on to animate Episode 4 of The Tenth Planet (November 2013) , and episodes 1 and 3 of The Moonbase (January 2014) .

In August 2013 , BBC Worldwide announced that episodes 2 and 3 of The Ice Warriors would be animated by Quirus Entertainment for a DVD release later that month .

In December 2013 , 2 Entertain commissioning editor Dan Hall mentioned that Planet 55 had again been commissioned to complete The Underwater Menace , for what he hoped would be an early 2014 release . However , in September 2015 Doctor Who Magazine confirmed that the much @-@ delayed DVD , now scheduled for October 26 , was instead to contain tele @-@ snap reconstructions of the missing episodes 1 and 4 .

===== Unreleased and unofficial animations =====

In 2008 , after future collaboration with Cosgrove Hall had been rejected due to expense , 2 Entertain was approached by David Busch of US animation studio Titmouse , Inc . , who offered to do the work more cheaply as a result of the favourable exchange rate between the UK and the US , and put together a test trailer of scenes animated from various missing serials , including The Power of the Daleks , The Moonbase , The Macra Terror , The Web of Fear , and Fury from the Deep . While 2 Entertain decided not to commission anything from Titmouse , the trailer was eventually seen by Ian Levine , who offered to try and raise the money for a full episode reconstruction to serve as a prototype . The episode chosen was " Mission to the Unknown " , as it was a self @-@ contained episode featuring the Daleks with a limited number of characters and sets , thus keeping the budget down . Although completed , the animated version of " Mission to the Unknown " has never been officially released , although it has been posted on various video streaming sites .

With the advent of ever @-@ more @-@ powerful home computers and more specialist programs for them , many fans are also working on unofficial animations of the missing episodes , and this is widespread with many clips being shown on @-@ line .

===== Narrated links =====

In some cases missing episodes are bridged by narration to the camera ? often by a surviving actor from the serial , occasionally in @-@ character . For their VHS releases , The Reign of Terror and The Crusade were presented by actors Carole Ann Ford and William Russell ? while Episodes 1 and 4 of The Invasion were bridged by Nicholas Courtney .

Although not strictly a missing serial , production of the 1979 Tom Baker story Shada was curtailed by a technician 's strike partway through recording . To prevent the half @-@ finished material from being junked , incoming Doctor Who producer John Nathan @-@ Turner placed a preservation order on it with an intention to later finish the production . Although repeated attempts to remount the serial failed , a clip from Episode 1 was later used in the 1983 story The Five Doctors after Tom Baker declined to reprise his role .

Eventually in 1992 , the surviving material was released on home video , accompanied by in @-@ camera narration by Tom Baker to bridge the unrecorded content . In later years , Shada was reinterpreted in several forms including an audio play featuring Eighth Doctor Paul McGann (also presented on the Web , accompanied by basic Flash animation) and a novelization by Gareth Roberts .

===== Recreations =====

Although the BBC has invested in the reconstruction of episodes using animation , it has never attempted to do anything in the way of complete re @-@ staging of missing episodes ; the closest

that it has come to this was the recreation of parts of various serials , including the completely missing Marco Polo , in the docudrama An Adventure in Space and Time produced for the 50th anniversary in 2013 . However , in 2012 a reimagined version of The Power of the Daleks , written by , directed by , and starring Nick Scovell , was released on YouTube in three parts prior to being shown in its entirety at the Power : Reimagined convention in September 2012 .

= = Further research = =

= = = Books and periodicals = = =

Between 1973 and 1994 , each missing Doctor Who serial was novelized and published by Target Books .

Richard Molesworth 's Wiped ! Doctor Who 's Missing Episodes (Telos Publishing , 2010) explores in detail the paper trail and recovery efforts surrounding the hunt for missing episodes . A revised edition was published in March 2013 .

= = = Nothing at the End of the Lane = = =

Issue # 1 of " Nothing at the End of the Lane " (July 1999) includes articles about fan @-@ made reconstructions of the missing episodes , audio of missing episodes , and the archive status of footage from Seasons 1 @-@ 3 .

Issue # 2 (June 2005) includes articles about John Cura (the photographer behind Doctor Who 's Tele @-@ snaps) , recent discoveries of missing episodes , Junking of videotapes in the 1960s and ' 70s , a look at telerecordings , and the archive status of footage from Seasons 4 @-@ 6 .

Issue # 3 (January 2012) includes articles about the 26 off @-@ screen photographs taken by Chris Thompson (Production Designer) from The Evil of the Daleks episode one , and new location photographs .

= = = Doctor Who Magazine = = =

Issue # 444 of Doctor Who Magazine (February 2012) , titled " How the Daleks Exterminated Doctor Who 's History " , examines the overseas sales of the missing episodes and the chances of their survival .

Issue # 466 (October 2013) focuses on the rediscovery of " The Enemy of the World " and " The Web of Fear " by Philip Morris .

Three special editions of Doctor Who Magazine (# 34 @-@ 36) , titled " The Missing Episodes ? The First Doctor " , " The Missing Episodes ? The Second Doctor Volume 1 " , and " The Missing Episodes ? The Second Doctor Volume 2 " , were released between March ? December 2013 ; each issue features a 100 + page guide to the missing episodes which exist in tele @-@ snap form , with details how they came to be wiped .

= = = Documentaries = = =

Doctor Who ? Missing in Action (1993) ? a documentary about the missing episodes , featuring Ian Levine .

The Missing Years (1998) ? a documentary about the lost Doctor Who episodes and recovery attempts , available on Doctor Who : The Missing Years VHS and (in an updated form) on the Lost In Time DVD box set .

The National Lottery : Amazing Luck Stories (1999) ? a short segment about the recovery of the Doctor Who episode from New Zealand .

Time Shift ? Missing Believed Wiped (2003) ? a general documentary about archive television , featuring some clips and discussions about Doctor Who .

WOTAN Assembly (2008) ? a short DVD featurette about restoring The War Machines , which shows how the Doctor Who Restoration Team manages to create a near @-@ complete version this serial using clips from various sources around the world . Narrated by Anneke Wills .

Colour Silurian Overlay (2008) ? a DVD featurette about restoring Doctor Who and the Silurians , using the surviving 16 mm telerecordings and an off air NTSC Betamax recording as a colour source .

Multi @-@ Colourisation (2009) ? a DVD featurette about how chroma dots were used to restore Planet of the Daleks episode three back to full colour .

The One Show (2013) ? the 11 October edition of the show featured a short documentary about how Doctor Who episodes became lost , the recovery of audio from episodes , and the finding of episodes from The Enemy of the World and The Web of Fear .

" Restoring Doctor Who " (2014) ? a 4 @-@ minute documentary by " Paul Vanezis " of the Doctor Who Restoration Team , which shows the process of cleaning and restoring the nine episodes recovered in 2013 .