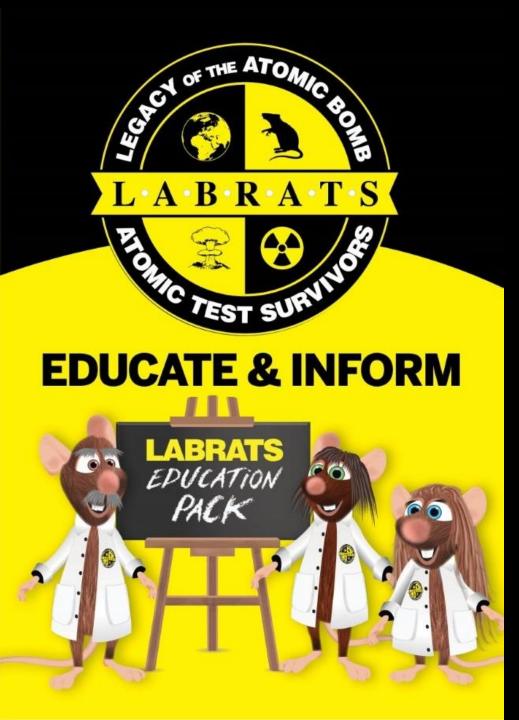


Funded by:

Office for Veterans' Affairs

Nuclear Test Veteran Community Fund video: BRIAN COWDEN music: STEWART ZIFF consultant: JOSEPH OWEN CR2020 DANIEL STERN jjo.digital script: ALAN OWEN narrator: STEVE PURSE



Welcome to the Supplementary guide for

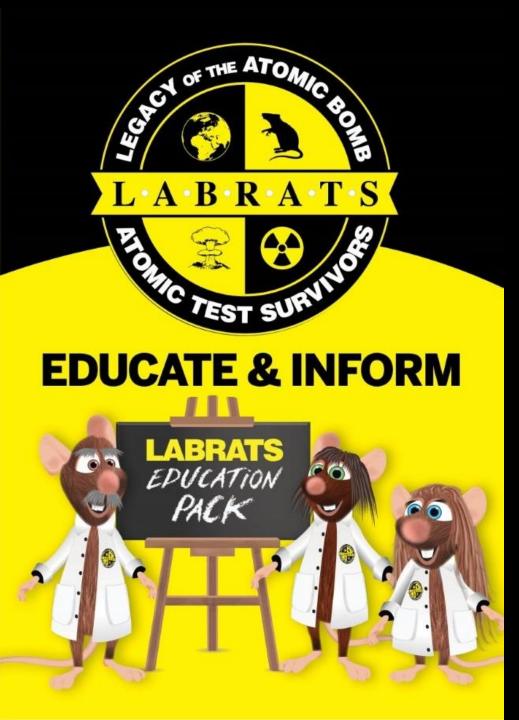
### BRITISH NUCLEAR TESTING AN INTRODUCTION

#### 'Have You Seen The Dragon'

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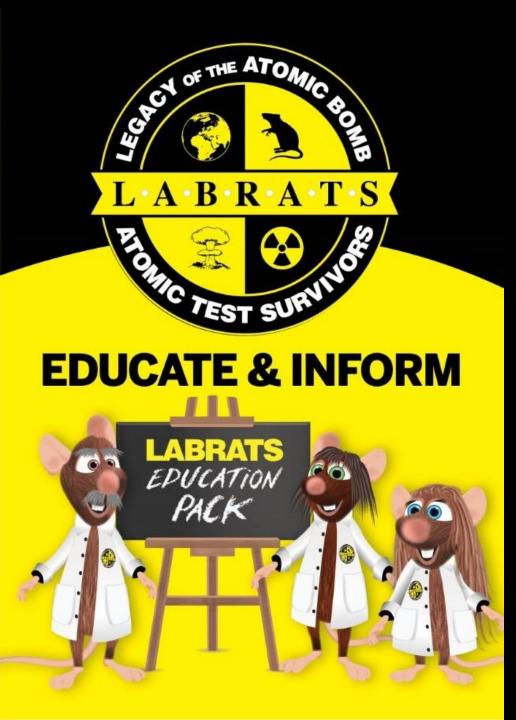


#### 'Have You Seen The Dragon'

The educational video is available on the LABRATS YouTube channel by clicking the link below:

www.labratsacademy.online/ukeducation

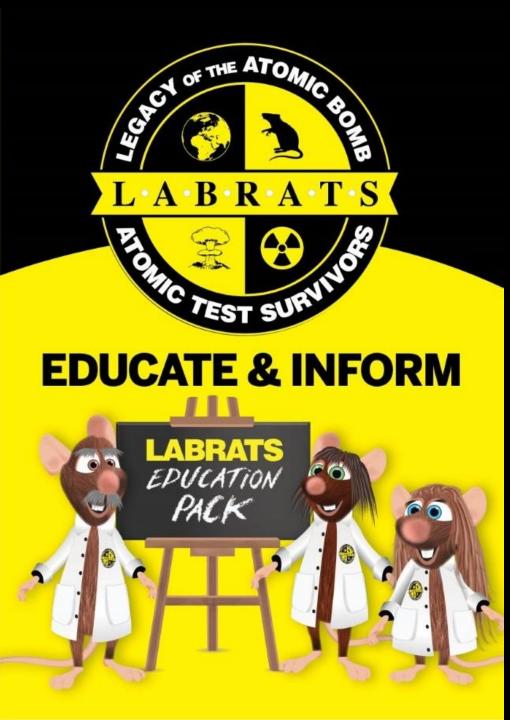
This video lasts 18 minutes and contains details and information about the British Nuclear testing program (both atmospheric and underground) as well as clean-up operations.



#### 'Have You Seen The Dragon'

Each testing operation was given a code name by the British Government. The following slides detail the codename for the Operations. Each slide will show:

- Year(s)
- Number of Tests
- Location
- Approximate Total Yield (given in kilotons)



#### 'Have You Seen The Dragon'

#### Instructor Notes:

- The video contains each of the test slides, but they are provided here for reference purposes and to show the location using Google Earth for reference.
- The testing program ran from 1952-1991.
- The UK tested in Australia, Pacific Islands and the Nevada Desert (USA)
- Further information about worldwide testing can be found at <u>www.labratsacademy.online</u>
- Further information about the participants of the tests can be found at <a href="https://damned.mirror.co.uk/">https://damned.mirror.co.uk/</a>

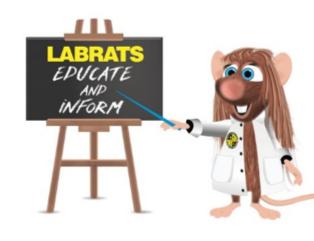
Years	Location	Tests	Yield Range	Total Yield (Kilotons)	Notes
	Trimouille Island,				
	Montebello Islands,				
1952	Western Australia	1	25	25	First British Nuclear Test
1953	Emu Field, South Australia	2	8 to 10	18	
	Montebello Islands,				
1956	Western Australia	2	15 to 60	75	
1956	Maralinga, South Australia	4	2 to 15	30	
1957	Maralinga, South Australia	3	1 to 27	34	
	Kiritimati and Malden				
1957-1958	Island, Kiribati	9	24 to 3,000	7,869	First scalable thermonuclear test
	Nevada Test Site, Nevada,				
1961-1991	United States	24	0 to 140	1,232	
	Kiritimati and Johnson				
1962	Island	31	20 to 7,700	38,100	Joint Operation with the USA
1953-1963	Maralinga, South Australia	600 (approx)	N/A	N/A	Most contaminating tests (non atmospheric)
	1952 1953 1956 1956 1957 1957-1958 1961-1991 1962	Trimouille Island, Montebello Islands,1952Western Australia1953Emu Field, South Australia1953Montebello Islands,1956Western Australia1956Maralinga, South Australia1957Maralinga, South Australia1957Island, Kiribati1957-1958Island, Kiribati1961-1991United StatesKiritimati and JohnsonIsland	Trimouille Island, Montebello Islands,Image: Strike Strik	Trimouille Island, Montebello Islands,251952Western Australia1251953Emu Field, South Australia28 to 10Montebello Islands,1956Western Australia215 to 601956Maralinga, South Australia42 to 151957Maralinga, South Australia31 to 27Kiritimati and Malden1957-1958Island, Kiribati924 to 3,000Nevada Test Site, Nevada,1961-1991United States240 to 140Kiritimati and Johnson1962Island3120 to 7,700	Trimouille Island, Montebello Islands,25251952Western Australia125251953Emu Field, South Australia28 to 1018Montebello Islands,15 to 60751956Western Australia215 to 60751956Maralinga, South Australia42 to 15301957Maralinga, South Australia31 to 27341957-1958Island, Kiribati924 to 3,0007,8691961-1991United States240 to 1401,2321962Island3120 to 7,70038,100

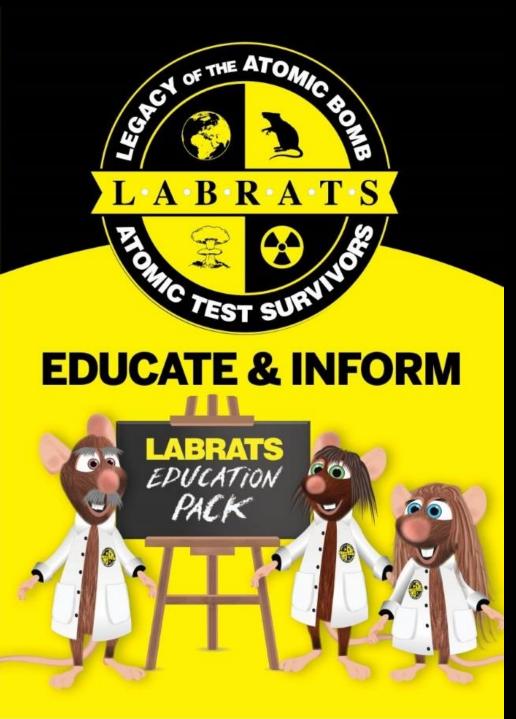
British Nuclear Testing (including UK/US Tests)

Ran From 1952 – 1991

**Included approximately 600 Minor Trials** 

22,000+ Servicemen were involved





#### 'Have You Seen The Dragon'

**Diary Information** 

The LABRATS Academy contains a calendar of tests, each day is listed with the details of the country and testing undertaken.

The calendar will show just how much testing has been undertaken across the world as well as provide information for a particular day.

You can access this resource using the following link:

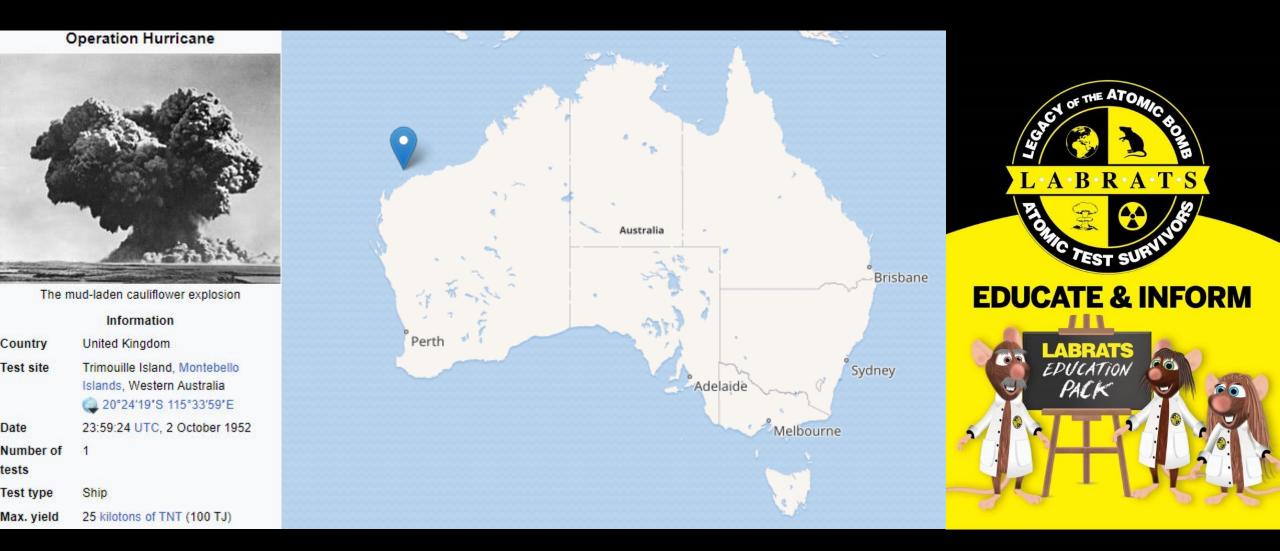
https://www.labratsacademy.online/diary

## Operation Hurricane

RAT

1952 - 1 Test Montebello Islands Australia 25 kilotons

#### **Operation Hurricane**



### Operation Totem

LABRATS

1953 - 2 Tests Emu Field South Australia 18 Kilotons

#### **Operation Totem**



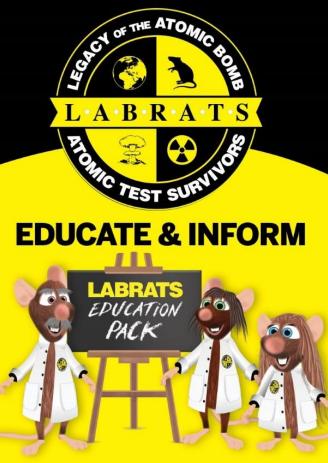


Obelisk at the Totem 1 test site

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Country	United Kingdom
Test site	Emu Field, South Australia, Australia
Period	15-27 October 1953
Number of tests	2
Test type	tower
Max. yield	10 kilotonnes of TNT (42 TJ)



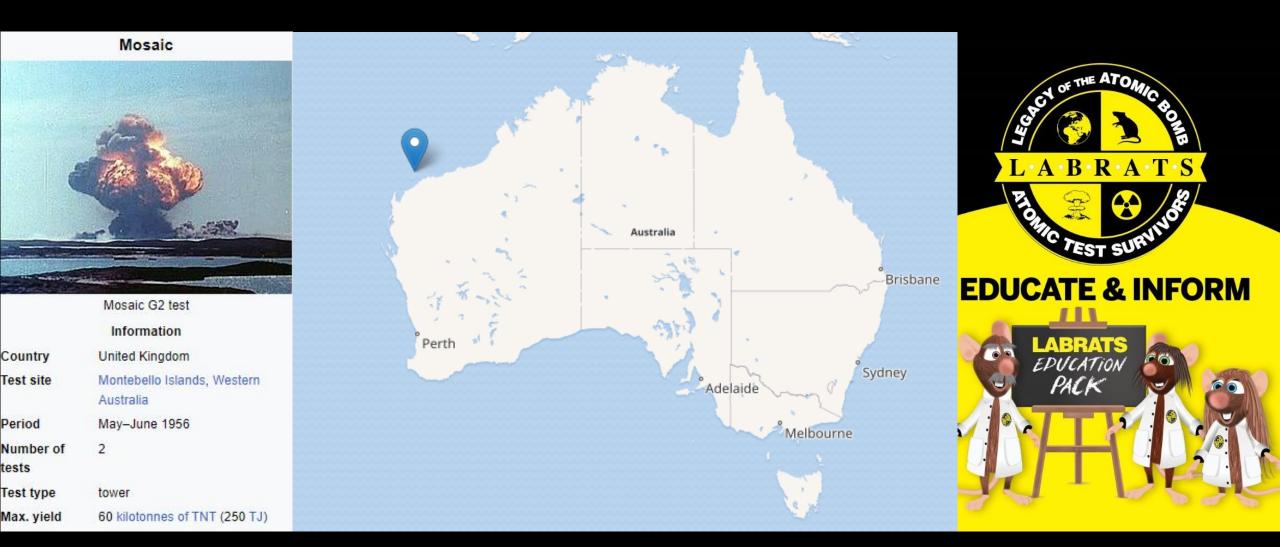


## Operation Mosaic Storme ATON

BRATS

1956 - 2 Tests Montebello Islands Western Australia 75 Kilotons

#### **Operation Mosaic**



# Operation Buffalo

BRATS

1956 - 4 tests Maralinga South Australia 30 Kilotons

#### **Operation Buffalo**



## Operation Antler Storme ATOM

LABRATS

1957 - 3 Tests Maralinga South Australia 34 Kilotons

#### **Operation Antler**



# Operation Grapplester THE ATOMIC BE

BRATS

1957-58 - 9 Tests Kirimati and Malden Island, Kiribati 7,689 Kilotons

#### **Operation Grapple**



### NTS Series

BRATS

1961-1991 - 24 Tests Nevada Test Site United States 1,232 Kilotons

#### **NTS Series**

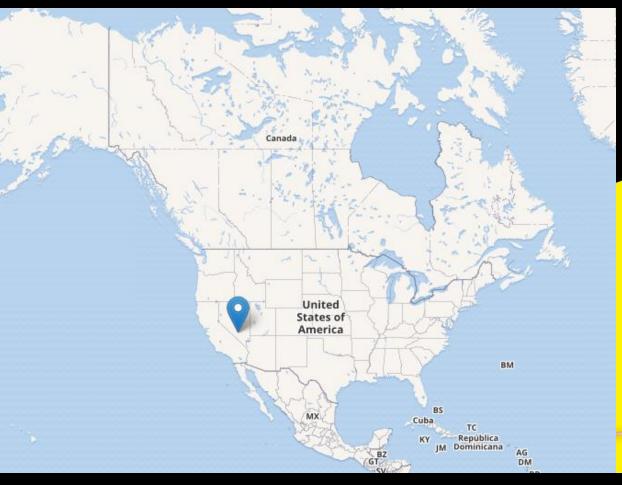


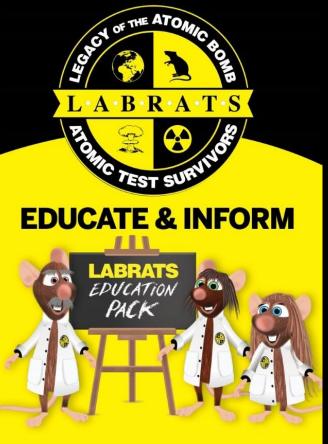


Krakatau subcritical experiment being lowered into the floor of the tunnel of the U1a Complex at the Nevada Test Site (2006). The cables extending from the hole will carry data from the experiment to recording instruments.

#### Information

Country	United Kingdom
Test site	NTS Area 19, 20, Pahute Mesa; NTS, Areas 1–4, 6–10, Yucca Flat
Period	1962-1991
Number of tests	24
Test type	underground shaft
Max. yield	140 kilotonnes of TNT (590 TJ)





## Operation Dominic storman

BRAT

1962 - 31 Tests Kiritimati & Johnston Island 38,100 Kilotons

#### **Operation Dominic**



## Minor Trials

BRATS

1953-63 600 Tests Maralinga South Australia Kittens, Tim, Rat, Vixen

#### **Minor Trials**



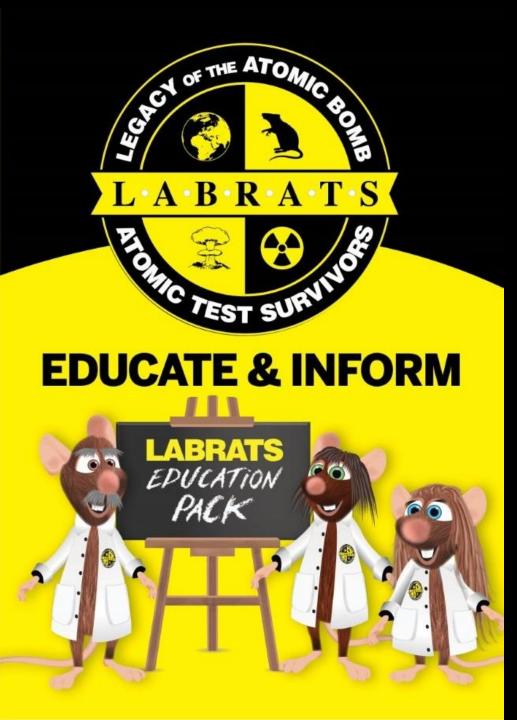
## Clean-up Operations

BRATS

1963 - Op Clean Up 1964 - Op Hercules 1967 - Op Brumby 2000 - TAG Report

#### **Cleanup Operations**





#### 'Have You Seen The Dragon'

Please provide feedback on the Video and the Educational Material provided by emailing <u>info@labrats.international</u>.

Your feedback is very important to us to improve our services.

If you haven't already, take the educational Quizes available on the Academy website and share the experience with your students.

A full teacher companion pack for the quizzes can be found at:

https://www.labratsacademy.online/teacher

