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# Table of Contents

Title Page...........................................................................................................i
Acknowledgements............................................................................................ii
Table of Contents................................................................................................iii
Abstract................................................................................................................vi
List of Illustrations...............................................................................................vii
Glossary................................................................................................................viii

**Introduction**.....................................................................................................1

Contextualising Scientific Intelligence..............................................................23

Summary of Chapters..........................................................................................25

**Chapter I: A Scientific Intelligence Service**.................................................30

Preparing for War...............................................................................................35

Inferior Red.........................................................................................................43

A Scientific Intelligence Service.........................................................................57

**Chapter II: Battle of the Beams**.................................................................92

The ‘Chase’.........................................................................................................96

*Knickebein*......................................................................................................111

**Chapter III: Wotan**....................................................................................149

The Post-*Knickebein* Lull................................................................................152

The Rise of *X-Gerät*........................................................................................161
Coventry.................................................................171

_Wotan II._ ..........................................................179

Much Ado about Nothing........................................198

**Chapter IV: On the Offensive**.................................207

Scientific and Technological Mid-War Expansion.............207

Understanding DT..................................................218

**Chapter V: Strategic Air Offensive**..........................257

The Bruneval Raid..................................................263

Strategic Air Offensive and the Kammhuber Line..............291

**Chapter VI: The Wider Radio War**...........................331

Atomic Distractions...............................................332

_Window_ – Effects and Further Controversy....................343

Scientific Bombing and the Radio War..........................359

DT and D-Day.......................................................368

DT Debrief..........................................................382

**Chapter VII: In and Out of Whitehall**.......................389

The Gradual Growth of ADI (Science)..........................390

ADI (Science) as a Structural Component.......................414

Interconnectivity of ADI (Science)..............................435

**Chapter VIII: Unconventional Warfare**.....................447

Rocket Controversy...............................................449

Flying Bomb Derivatives.........................................466
Pilotless Aircraft.................................................................................................477

Conclusion..........................................................................................................505

Appendix I:
Intelligence Branches of the Second World War.................................530

Appendix II:
The Publications, Broadcasts, and Lectures of
Reginald Victor Jones.................................................................541

Bibliography......................................................................................................572
Abstract

The history of scientific intelligence – its birth, its importance during the Second World War, and its unique wartime qualities – has relied almost entirely on the memories of its pioneer, R. V. Jones. This thesis constitutes a critique of this history; through scrutiny of Jones’s post-war literature (especially his war memoirs entitled Most Secret War), his archival papers and those of his colleagues and contemporaries, and other mediums he used to promote his account of scientific intelligence. This thesis examines chronologically all of the key events Jones became famous for – the Battle of the Beams, the Bruneval Raid, the Radio War, the Battle of the V-Weapons – and compares Jones’s account of these (and many other) events with contemporary documentation. This thesis provides a rich understanding of the internal machinations within the British wartime air scientific intelligence organisation defined as ADI (Science), and their relationships with the many other political, military and intelligence sections that pursued similar and often closely-linked quests. This thesis importantly connects science and technology with the collection and collation of intelligence, is an analysis of wartime intelligence of a scientific and technical nature, and argues that scientific intelligence was much more than one man’s accomplishments, involved many more individuals and organisations than is perceived, and is much more important to twentieth century history than has been permitted.
List of Illustrations

Streams of Scientific Intelligence..............................................................77

After the Appointment of a Scientific Adviser.............................................79

Suggested General Scheme for Scientific Intelligence.................................82

The Organisation of British Intelligence in 1939...........................................88

Characteristics of German Ground Radar....................................................371

ADI (Science) Personnel.............................................................................391

SIS in 1940.................................................................................................415

Air Force SIGINT Organisation in 1940.........................................................417

Traffic Flow of Enigma................................................................................419

Air Ministry Intelligence Organisation, August 1941.....................................425

Noise Signal Intelligence for the Invasion of France.....................................429

RAF SIGINT Organisation in the United Kingdom in 1944............................431

Air Ministry Intelligence Directorate Organisation, September 1944..........433
Glossary

AA – Anti-Aircraft (also referred to as ‘ack-ack’)
ACAS(I) – Assistant Chief of Air Staff (Intelligence)
ACAS(R) – Assistant Chief of Air Staff (Research)
ADRDE – Air Defence Research & Development Establishment
ADI – Assistant Director of Intelligence
ADI (Science) – Assistant Directorate of Intelligence (Science)
ADGB – Air Defence of Great Britain
ADRC – CID’s Sub-Committee on Air Defence Research
AEF – Allied Expeditionary Force
AEAF – Allied Expeditionary Auxiliary Force
AHB – Air Historical Branch
AI – Air Interception
AMES - Air Ministry Experimental Stations
AMRE – Air Ministry Research Establishment
APIS - Army Photographic Interpretation Service
ARL – Admiralty Research Laboratory
ASV – Air-to-Surface Vessel

BADU – Blind Approach Development Unit
BAFO – British Air Force of Occupation
BIOS – British Intelligence Objectives Sub-Committee
BMP – Tactical Signals Intelligence Reports

CH – Chain Home
C-in-C – Commander in Chief
CIA – Central Intelligence Agency
CID – Committee for Imperial Defence
CIU – Central Interpretation Unit (Medmenham)
CND - Confrérie de Notre-Dame
CombinedOps – Combined Operations
COS – Chief of Staff/Chiefs of Staff
CSA – Chief Scientific Adviser
CSDIC – Combined Services Detailed Interrogation Centre
CSSAD – Committee for the Scientific Survey of Aerial Defence
CSSAO – Committee for the Scientific Survey for Air Offensive
CSSAW – Committee for the Scientific Survey of Air Warfare

DCAS – Deputy Chief of Air Staff
DDI – Deputy Director of Intelligence
DDI2 – Deputy Director of Technical Intelligence
DDI3 – Deputy Director of Operational and Organisational Intelligence
DDI4 – Deputy Director of Low Grade Signals Intelligence
DDR – Deputy Director of Research
DDSY – Deputy Director of Signals (Y), later defined as DDI4
D/F – Direction-Finding
DI(O) – Director of Intelligence (Operations)
DI(R) – Director of Intelligence (Research)
DI(S) – Director of Intelligence (Security)
DNI – Director of Naval Intelligence
DSIR – Department of Scientific and Industrial Research
DSR – Director of Scientific Research
DT – Dezimeter Telegraphie (German Radar)

EEC – English Electric Company
ELINT – Electronic Intelligence

F/Lt – Flight Lieutenant
FMG – Flakmessgerät
F/O – Flight Officer
FuGe – Funk-Gerät
FZG – Flakzielgerät

GAF – German Air Force
GASER – German Air Signals Experimental Regiment
**GC&CS** – Government Code and Cypher School
**GCI** – Ground Control Interception
**GEC** – General Electric Company
**GPO** – General Post Office
**Gr/Cpt** – Group Captain

**HDU** – Home Defence Units
**HF** – High Frequency
**HDP** – *Hochdruckpumpe* (V3)
**HUMINT** – Human Intelligence
**HWA** – German Army Ordnance Office

**IFF** – Identification: Friend or Foe
**IIC** – Industrial Intelligence Centre
**ISK** – Illicit Signals Knox
**ISOS** – Illicit Signals Oliver Strachey

**JIC** – Joint Intelligence Committee

**KG** - *Kampf Geschwader*
**KGr** - *Kampf Gruppe*

**MAAF** – Mediterranean Allied Air Force
**MAP** – Ministry of Aircraft Production
**Mc/sec** - Megacycles per second
**MEW** – Ministry of Economic Warfare
**MHz** – MegaHertz
**MOD** – Ministry of Defence
**MOI** – Ministry of Information
**MOS** – Ministry of Supply
**MTB** – Motor Torpedo Boat

**NIB** – Noise Investigation Bureau
**NIC** – Night Interception Committee
**NID** – Naval Intelligence Division
**NPL** – National Physics Laboratory

**OIC** – Operational Intelligence Centre
**OPINT** – Open Source Intelligence
**OR** – Operational Research
**ORS** – Operational Research Section
**OSRD** – Office of Scientific Research and Development
**OSS** – Office of Strategic Services

**PCO** – Passport Control Officer
**PE** – Photo-Electric
**PI** – Photographic Interpretation
**PIU** – Photographic Interpretation Unit
**POW** – Prisoner of War
**PPI** – Plan Position Indicator
**PR** – Photographic Reconnaissance
**PRU** – Photographic Reconnaissance Unit
**PWE** – Political Warfare Executive

**RADAR** – Radio Detection And Ranging
**RAE** – Royal Aircraft Establishment
**RAF** – Royal Air Force
**RAFDEL** – Royal Air Force Delegation
**RCA** - Radio Corporation of America
**RCM** – Radio Countermeasures
**RDF** – Radio Direction-Finding
**REME** – Regiment of Electrical and Mechanical Engineers
**RE8** - Ministry of Home Security’s Research and Experiments Department
**RRE** – Royal Radar Establishment
**RSS** – Radio Security Service
**R/T** – Radio Telegraphy
**RUSI** - Royal United Services Institution
SAM – Surface-to-air guided-missiles
SAS – Special Air Services
SBS – Special Boat Services
SHAEF – Supreme Headquarters of the Allied Expeditionary Forces
SIGINT – Signals Intelligence
SIR – Air Scientific Intelligence Report
SIS – Secret Intelligence Services
SLU – Special Liaison Units
SOE – Special Operations Executive
Sq/Ldr – Squadron Leader
STI – Scientific and Technical Intelligence
STC – Standard Telephone & Cables
TECHINT – Technical Intelligence
T-Force – Target Force
TRE – Telecommunications Research Establishment
USAF – United States Air Force

VHF - Very High Frequency

WAAF – Women’s Auxiliary Air Force
W/Cdr – Wing Commander
W/T – Wireless Telegraphy

Y-Service – low-grade signals intelligence organisation
Y-Station – Technical Military Listening Post