

Index

- A Study of Future Air Force Space Policy and Objectives*, 192
- A-4, 5, 10
- Able (Modified Vanguard), 163
- Abrahamson, James A., Maj Gen, 224, 227
- Advanced Defense Communications Satellite Program, 139
- Advanced Launch Development Program (ALDP), 238
- Advanced Launch System (ALS), 227, 229, 237, 238, 282
- Advanced Reconnaissance System (ARS), 37, 39, 45, 55, 58, 59
- Advanced Research Projects Agency (ARPA), 51, 53, 57-60, 65-67, 69, 70, 72, 74, 75, 79, 80, 83, 93, 103, 137, 138, 144, 153, 162, 272
- Advanced Satellite Technology Program, 234
- Advanced Satellite Test Center, 167
- Advanced Warning System, 264
- Advent, 73, 87, 138-140, 142, 144, 146
- Aerobee, 17, 42
- Aerojet (General) Engineering Company, 7, 159
- Aerojet Able, 164
- Aerojet Able Star, 163, 164
- Aeromedical Field Laboratory, 73
- Aeromedical Laboratory, 73
- Aeronautical Systems Division (AFSC), 90
- Aeronautics and Astronautics Coordinating Board (AACB), 81, 106, 125
- Aerospace Corporation, The, 86, 95, 99, 139, 146, 147, 150, 273
- Aerospace Defense Center (ADC), 204
- Aerospace Defense Command (ADCOM), 179, 184, 187, 193-196, 204-206, 219
- Aerospace Force, 202, 205
- Africa, 166
- Agena, 45, 71, 120, 163, 173, 272
- Aircraft
- B-52, 257
 - C-130, 251
 - C-5, 133
 - F-111, 258
 - F-117 Stealth, 255
 - F-15, 133, 188
 - F-16, 257
- Air Defense Command (ADC), 72, 155, 161, 184
- Air Force Academy, 281
- Air Force Association, 279
- Air Force Association Advisory Group on Roles and Missions, 282
- Air Force Cambridge Research Center, Massachusetts, 17, 148, 161
- Air Force Communications Command, 193
- Air Force Configuration Control Board, 120
- Air Force Global Weather Center, 212
- Air Force Investment Strategy for Space, 236
- Air Force Logistics Command (AFLC), 90
- Air Force Manual 1-1 (AFM 1-1), 206
- Air Force Manual 1-2, USAF Basic Doctrine, 54
- Air Force Missile Test Center, 107
- Air Force Objective Series (AFOS), 83
- Air Force Satellite Communications (AFSATCOM), 145, 213
- Air Force Satellite Control Facility (SCF), 160, 167, 168, 169
- Air Force Satellite Control Network, 216, 232
- Air Force School of Aviation Medicine, 73
- Air Force Scientific Advisory Board, 101, 224
- Air Force Space Command, 176, 194, 201, 208-211, 216, 217, 219-221, 230-233, 235-242, 246-249, 251, 252, 254-256, 260-262, 268, 274, 275, 277, 278, 281, 283
- Air Force Space Master Plan (1981), 201
- Air Force Space Plan, 219, 220
- Air Force Space Plan (Sep 1961), 104, 118, 121
- Air Force Space Policy (1988), 238
- Air Force Space Surveillance Element, 237
- Air Force Space Test Center (AFSTC), 169
- Air Force Systems Command (AFSC), 90,

- 99, 101, 103, 104, 107-109, 116, 117, 120, 121, 129, 134, 137, 139, 142, 150, 155, 157, 158, 168, 169, 173, 184, 187, 194-196, 203-205, 215, 216, 217, 219, 220, 221, 230-233, 238-240, 247, 273
- Air Forces Scientific Advisory Group, 8
- Air Materiel Command, 8, 9, 20, 22, 25-27, 34, 35, 89, 90
- Air Research and Development Command (ARDC), 22, 23, 24, 28, 31, 33, 34, 36-38, 43, 44, 46, 58, 59, 89, 120, 121, 137
- Air Staff, 20, 22, 24, 26, 35, 44, 46, 55, 56, 58, 59, 67, 69, 71, 76, 79, 83, 87, 89, 90, 103, 104, 111, 116, 121, 130, 157, 159, 189, 191-195, 198, 203, 204, 207, 221, 230
- Air University, 22, 235, 281
- Air Weather Service, 251
- Aldridge, Edward C., "Pete," 202, 204, 205, 224-227, 229, 231, 233, 237, 268, 276
- Alert Locate and Report Missiles System (ALARM), 265
- Aleutian Chain, 186
- Allen, Lew, General, 194-196, 199, 201-205, 224
- American Ordnance Association, 102
- American Rocket Society, 6, 102
- Ames Aeronautical Laboratory, 65
- Anderson, Clinton, Sen., 34
- Anderson, O. A., General, 22
- Anderson, Samuel, E., General, 59
- Anderson Committee, 22
- Andrews Air Force Base, 169
- Anti-Ballistic Missile (ABM), 179
- Antisatellite System (ASAT), 188
- Apollo 11*, 180
- Apollo 9*, 145, 174, 176, 177
- Apollo Applications Program, 123, 131, 180
- Applied Physics Laboratory (APL) Johns Hopkins, 150
- Applied Physics Laboratory (Johns Hopkins University), 17
- Arab-Israeli Conflict (1973), 176
- Arabsat, 245
- ARDC Test Radar, 72
- Army Apache Attack Helicopters, 257
- Army Ballistic Missile Agency (ABMA), 52, 65, 76
- Army Ordnance Command, 18
- Army Ordnance Department, 7, 42
- Army Ordnance Division, 17
- Army Satellite Communications Agency, 139
- Army Space Command, 250, 277
- Arnold, Henry H. "Hap", General, 2, 3, 7, 9-13, 17, 18, 20, 29, 33, 48, 49, 270
- Arnold Engineering Development Center, 173
- Ascension Island, 166
- Aspin, Les, 265
- Assured Access to Space During the 1990's, 227
- Assured Mission Support Space Architecture Study*, 236
- Atkinson, J.H., Lt Gen, 155
- Atlantic Missile Range, 70, 88
- Atlantic Ocean, 142, 143, 145, 160, 247, 254
- Atlas Agena A, 164
- Atlas Agena B, 139, 153, 163, 164
- Atlas Agena D, 139, 163, 164
- Atlas B, 138
- Atlas Centaur, 139
- Atlas D, 88, 94
- Atlas E, 158, 164, 240, 251
- Atlas F, 164
- Atlas ICBM/Booster, 18, 21, 24, 32-35, 37, 39, 42-46, 49, 70, 73, 84, 87, 120, 121, 163, 164, 212, 225, 266, 271, 272
- Atlas II, 225, 229, 240
- Atlas Scientific Advisory Committee, 33
- Atlas-Agena, 71, 156, 158
- Atomic Energy Commission, 28, 153
- Atomic Energy Committee, 24
- Augenstein, Bruno W., 32
- Augustine, Norman R., 268
- Augustine Committee, 268
- Automatic Picture Transmission, 170
- Baghdad, Iraq, 249, 255, 257
- Bahrain, 245
- Baker-Nunn Satellite Tracking Cameras, 72, 161, 162, 187
- Ballistic Missile Division, 44, 54, 57, 68, 70, 78, 89

- Ballistic Missile Division (AFSC), 90, 135, 155
Ballistic Missile Early Warning System (BMEWS), 156, 160, 162
Ballistic Missile Office (BMO), 196
Ballistic Missiles Center, 89
Bambi (Space Based Anti-Ballistic Missile Concept), 103, 123, 124
Banana River Naval Air Station, Florida, 166
Bangkok, Thailand, 171
Basra, 257
Beacon Hill Study, 28, 29
Beale Air Force Base, California, 187
Bell Aerosystems, 164
Bell Laboratories, 4
Bermuda, 145
Bissell, Richard M., Jr., 41, 85
Blue Cube, 167, 168
Blue Gemini, 117, 121, 122
Blue Ribbon Panel, 210
Blue Ribbon Panel Implementation Plan, 238
Blue Ribbon Panel on Space Roles and Missions, 230, 233, 234, 236, 238, 239, 241, 242, 275-278, 280
Blue Scout, 103
Boeing Burner II, 164
Bomi (Bomber Missile), 74
Boone, W. F., Admiral, 120, 122
Boost Surveillance and Tracking System, 264, 265
Bossart, Karel, 21
Bottom-up Review, 265, 267, 268
Boushey, Homer A., General, 55, 57, 59, 76, 79, 86, 121
Bowles, Edward L., Dr., 9
Brass Bell, 74
Brilliant Eyes, 261, 262, 264, 265
Brilliant Pebbles, 261
British Falkland Islands, 244
British Interplanetary Society, 40
British Skynet, 141, 246, 248
Brooks, Overton, Sen., 81, 88, 91, 101
Brown, Harold, Dr., 106, 109, 113, 124, 125, 126, 130, 131, 156, 157, 159, 190
Buck Rogers, 7
Buckley Air National Guard Base, Colorado, 160, 254
Bumper-WAC, 17
Bureau of the Budget, 132
Burke, Arleigh, Admiral, 76, 77, 84, 172, 205, 219
Bush, Vannevar, 3, 11, 12, 19, 48
Bush, George H. W., President, 243, 268
Bush Administration, 263, 275, 276
California Institute of Technology (Cal Tech), 2, 3, 7, 39, 65, 157
Cambridge Research Center (Massachusetts), 72
Camp Cooke, California, 166
Camp Parks Communications Annex, 168
Canada, 39, 179, 219
Cape Canaveral (Kennedy), Florida, 75, 107, 111, 120, 145, 146, 149, 163, 165, 166
Carns, Michael P. C., General, 280, 281
Carter, Launor F., 118
Carter, Jimmy, President, 189, 190, 208
Carter Administration, 178, 189, 190, 196, 200, 223
Centaur, 72, 164, 224, 225
Chain, John T., General, 199, 204, 205
Challenger (STS Mission 51-L), 210, 216, 217, 221-223, 226-228, 231, 232, 241, 246, 248, 268, 275
Charyk, Joseph V., 85, 86, 90, 156
Cheap Satellites (CHEAPSATs), 234
Cheyenne Mountain, Colorado, 197, 219, 237, 254
Chidlaw, Benjamin W., General, 20
China, 23, 185
Chrysler Corporation, 23, 42
CIA (Central Intelligence Agency), 31, 41, 84, 85, 272
Civilian-Military Liaison Committee, 63, 81
Clark, Wesley G., Brig Gen, 194, 220, 221
Clark University, 6
Clarke, Arthur C., 137, 138, 146
Clay, Lucius D., Jr., General, 184
Clear Air Force Station, Alaska, 162, 211
Clements, William P., 151
Clinton Administration, 265, 268

- Cloudcroft, New Mexico, 162
Coalition Forces, 245, 247, 248, 252-260, 264
Cobra Dane, 186
Cold War, 20, 241, 243, 255, 260, 262, 263, 267, 269, 270, 278, 283, 284
Collbohm, Franklin, 9
Combined Operations Center, 161
Commercial Space Launch Act (1984), 226
Committee on Guided Missiles, 19
Communications By Moon Relay, 138
Communications Satellite Corporation (COMSAT), 139, 171, 245, 246, 256
Complementary Expendable Launch Vehicles (CELVs), 225, 226
Congress, 23, 35, 40, 56-58, 61, 63, 67, 76, 82, 86, 92, 104, 106, 132, 176, 181, 188, 204, 218, 225-227, 264, 266, 267, 276, 278
Consolidated Space Operations Center (CSOC), 197, 203, 211, 214, 216, 217, 254
Continental Air Defense Command (CONAD), 161
Control Data Corporation (CDC), 167
Convair (Consolidated Vultee Aircraft Corporation), 18, 20, 21, 23, 29, 31-34, 271
Corona Conference, 194, 195, 199
Corona Pine, 194
CORONA Project, 58, 67, 71, 84, 85, 103, 112, 152, 153, 155, 156, 163, 165, 166, 167, 272, 274
Corona South, 203, 204
Courier, 138, 140
Cuban Missile Crisis, 110
Currie, Malcolm, Dr., 188, 189
- Dahlgren, Virginia, 72, 161
DATS 1 (Despun Antenna Test Satellite), 141
Davis, Leighton I., Maj Gen, 107
Davis, Bennie L., General, 204, 215
DC-3 (of the space age), 165
Debus, Kurt H., Dr., 107
Defense Advanced Research Projects Agency (DARPA), 189, 233, 234, 267
Defense Astronautical Agency, 77
Defense Communications Agency (DCA), 138, 139, 141, 142, 176, 213, 246-248
Defense Communications System (DCS), 138
Defense Department Directive 5160.2, 230
Defense Department Space Shuttle User Committee, 183
Defense Mapping Agency, 214
Defense Meteorological Satellite Program (DMSP), 146-148, 164, 166, 170, 172, 173, 175, 186, 211, 212, 225, 229, 238, 250-252, 257, 258, 263, 264, 274, 283
Defense Navigation Satellite Development Program, 151
Defense Reorganization Act, 1958, 67
Defense Satellite Applications Program (DSAP) (or Program 417), 147, 148
Defense Satellite Communications System (DSCS), 137, 143, 172, 175, 185, 213, 214, 229, 238, 245-248, 254, 256, 266, 267, 274, 283
Defense Satellite Communications System I (DSCS I), 141, 142
Defense Satellite Communications System II (DSCS II), 141, 142, 143, 168, 185, 246
Defense Satellite Communications System III (DSCS III), 185, 213, 246, 267
Defense Satellite Communications System Indian Ocean (DSCS IO-II), 246, 247
Defense Science Board, 224, 237
Defense Support Program (DSP), 152, 154, 160, 175, 184, 185, 187, 211-213, 216, 222, 228, 254, 255, 259, 262, 265, 272, 274
Delta, 164, 222
Delta II, 228, 229, 232, 233, 238, 240, 248
Dembling, Paul, 62
Denver, Colorado, 160
Department of Commerce, 147
Department of Defense, 12, 20, 26, 27, 29, 38, 42-44, 46, 47, 51, 52, 56-64, 66, 67, 69, 78-82, 85, 88-92, 94, 96-103, 105-109, 111-123, 125, 127, 128, 130-137, 139, 140, 142, 144, 147, 148, 151, 152, 154, 155, 157, 159, 167, 169, 172-174, 176, 177, 180, 183, 186-190, 192, 193, 196, 200, 202, 203, 205-207, 212-214, 216, 217, 222-233, 235, 241, 264, 269, 273-280, 282-284
Department of Transportation, 214
Deutch, John, 278
DEW (Distant Early Warning), 39
Diplomatic Telecommunications System, 143

- Director for Defense Research and Engineering (DDR&E), 67, 70, 77-79, 81, 82, 92, 93, 112, 113, 117, 118, 124, 125, 127, 130, 155-160, 229
- Discoverer, 58, 67, 71, 77, 87, 94, 103, 153, 155, 156, 163, 165, 167, 168
- Diyarbakir, Turkey, 161
- DODGE 1 (Navy gravity gradient Spacecraft), 141
- Doolittle, James H., "Jimmy," Lt Gen, 22, 61
- Doploc, 72
- Doppler Radar, 150, 161
- Dornberger, Walter, Captain, 5, 6
- Douglas, Donald, 9
- Douglas, James H., 53, 76, 79, 86
- Douglas Aircraft Company, 9, 130
- Dryden, Hugh L., 61
- Dryden, Hugh, 75
- DuBridge, Lee A., 39
- Dulles, Alan, 41
- Dyna-Soar (X-20A), 4, 56, 74-76, 78, 79, 87, 94, 97, 102, 104-106, 109, 120-127, 133, 134, 181
- Eaker, Ira C., Lt Gen, 133
- Eastern Space and Missile Center, 196
- Eastern Test Range, 163, 164, 165, 169, 196
- Eastman Kodak, 28
- Easton, Roger, 151
- East-West Summit Conference, 84
- Edwards Air Force Base, California, 65, 162, 173
- Eglin Air Force Base, Florida, 162
- Eisenhower, Dwight D., President, 29, 30, 35, 38-40, 45-47, 49, 50, 52, 61, 63, 65, 71, 75, 79-81, 84, 138, 171
- Eisenhower Administration, 29, 47, 50, 51, 80, 91, 92, 93, 98, 99, 100, 102, 110, 172, 177, 262, 266-268, 270-272
- Electronics Division (AFSC), 90
- Eniwetok, 24
- Ent Air Force Base, Colorado, 161
- Ercoupe, 7
- Estes, Howell M., Jr., Lt Gen, 90, 116, 117
- Estes Study, 116
- Ethiopia, 141
- European Space Agency, 226
- Expendable Launch Vehicles (ELVs), 222, 227, 229
- Explorer, 51-53
- Fairchild Air Force Base, Washington, 212, 251
- Falcon Air Force Station, Colorado, 211, 214, 226, 232
- Federal Council on Science and Technology, 176
- Ferguson, James L., Lt Gen, 104-106, 111, 116, 118, 121, 128, 130, 135
- Fink, Daniel J., 276
- Finletter, Thomas K., 23
- Five-Year Space Plan (1962), 130
- Five-Year Space Program Study, 116, 117
- Flax, Alexander, 129, 130
- Fleet Satellite Communications (FLTSATCOM), 145, 164, 213, 246-248, 267
- Fogelman, Ronald R., General, 281
- Follow-on Early Warning System (FEWS), 265, 282
- Ford, Gerald R., 190
- Ford Administration, 189
- Fort Bliss, Texas, 17
- Fourteenth Air Force, 278
- Friendship 7*, 110
- Future of the U.S. Space Industrial Base, The, 276
- Future of the U.S. Space Launch Capability, The, 276
- Fylingdales, England, 162
- Gabriel, Charles A., General, 206, 207, 218, 219, 229
- Gagarin, Yuri, 91, 101
- Gardner, Trevor, 31-35, 37-39, 49, 87, 91, 92, 98, 103
- Gates, Thomas, 84
- Gemini, 97, 108, 117, 121-128
- Gemini B, 130
- Gemini Policy Planning Board, 131
- Gemini Program Planning Board, 122
- General Accounting Office, 203, 224, 226, 233, 279

- General Dynamics-Astronemics, 163
General Electric Company, 17, 130
German Society for Space Flight, 5
Getting, Ivan A., 150
Gillette, Hyde, 35
Gilpatrick, Roswell L., 86, 89-91, 107, 109
Glasser, Otto J., General, 44, 90
Glenman, Keith, 65, 78
Glenn, John H., Jr., Colonel, 110, 111
Global Positioning System (GPS), 149, 150, 151, 154, 165, 172, 175, 184, 216, 228, 232, 237, 245, 248-250, 256, 257, 264, 274, 277
Global Positioning System II (GPS II), 248, 249
Global Weather Central, 148
Goddard, Robert, 5-7
Granada, 244
Great Society, 97, 132
Greer, Robert E., Brig Gen, 85
Griggs, David, 16
Griggs, David, 25
Grimming Report, 40
Grissom, Virgil I., "Gus," 110
Ground Mobile Forces, 143
Ground-based Electro-optical Deep Space Surveillance (GEODSS) System, 162, 187
Guam, 141
Gugenheim Aeronautical Laboratory (GALCIT), 2, 3, 14
Gugenheim Foundation, 6
Guided Missile Development Division (Army), 40
Guided Missiles Committee, 24
Gulf War, 244, 255, 260-264, 266, 270
- Hall, Albert C., 129
Hall, Harvey, Dr., 14
Halley's Comet, 221
Hartinger, James V., General, 203-205, 215, 218, 219
Hawaii, 141, 145, 168, 169
H-Bomb, 24
Henry, Richard C., Lt Gen, 199, 203
Herres, Robert T., General, 227, 230
High Speed Flight Station (Edwards Air Force Base), 65
- Hill, James E., General, 193-195, 197
Holaday, William, 55, 57
Holloman, Air Force Base, New Mexico, 73
Holzapple, Joseph R., Maj Gen, 91, 92
Horner, Charles A., General, 261, 265, 284
House Resolution 5130, 202
House Science and Technology Committee, 176
Hughes Aircraft Company, 145, 150, 248
Hussein, Saddam, 243, 253, 259, 260
Hyper-Environmental Test System (HETS), 87
Hywards, 74
- ICBM (Intercontinental Ballistic Missile), 10, 11, 12, 13, 16, 19, 21, 23, 24, 26, 29, 32-35, 37, 39, 41, 43, 46, 47, 70, 71, 73, 99, 154-157, 160, 166, 178, 179, 254, 271
Indian Ocean, 142, 160, 246-248, 254
Inertial Upper Stage (IUS), 183, 223, 224
Inglewood, California, 38, 86
Initial Defense Communication Satellite Program (IDCSP), 139, 164, 170, 185
Initial Defense Satellite Communication System (IDSCS), 140, 141, 143, 168
Inmarsat, 245
Integrated Operational Nuclear Detonation System (IONDS), 154
Intelligence Operations Center, 237
Intelsat, 245
Interim Agreement On Strategic Offensive Weapons (SALT I), 178
Interim National Space Surveillance and Control Center (INSSCC), 72, 161
International Astronautical Federation, 40
International Geophysical Year, 2, 30, 38, 40-44, 52
Iraq, 243, 245, 247, 248, 251, 255, 256, 259
IRBM (Intermediate Range Ballistic Missile), 37-39, 41, 46, 70, 166
Iron Curtain, 27
Israel, 259
- Jackson, Henry M., Sen., 34
James, Daniel "Chappie," General, 193
Japan, 250, 263

- Jet Propulsion Laboratory (JPL), 7, 17, 42, 65
 Johnson, Lyndon B., President, 60, 61, 97, 98, 102, 125, 129, 140
 Johnson, Roy, 58, 59, 62, 66, 67, 77
 Johnson Administration, 132, 136
 Johnson Space Center, 183, 197, 223, 226
 Johnston Island, 188
 Joint Chiefs of Staff (JCS), 72, 76, 155, 161, 189, 195, 196, 205, 207, 217-219, 230, 231, 247, 248, 276-278
 Joint Requirements Oversight Council, 280
 Joint Space Management Board, 280
 Joint Subcommittee on Space Science and Applications, 227
 Jones, David C., General, 191, 192, 194, 196, 205, 207
 Juno, 17
 Jupiter, 17, 39, 42, 46, 60

 Keese, William B., Maj Gen, 103
 Keller, T.K., 23
 Kennedy, John F., President, 50, 86, 88, 92, 94, 98, 102, 105, 106, 109, 110, 181
 Kennedy Administration, 96-98, 102, 106, 112, 134, 136, 155, 156, 177, 273
 Kennedy Space Center, 183, 223
 Keyworth, Jay, 225
 Killian, James, 30, 32, 39, 52, 61, 63
 Killian Panel, 39, 52
 King, William G., Jr., Colonel, 37
 Kirtland Air Force Base, New Mexico, 203, 205
 Kistiakowsky, George B., 85
 Knopow, Joseph J., 45
 Korea, 141
 Korean War, 23, 28, 29
 Kramer, Ken, 202, 205
 Kuter, Lawrence S., General, 155, 161
 Kutyna, Donald J., General, 227, 235, 239, 240, 242, 249
 Kuwait, 243, 251, 253, 255, 256
 Kuwait City, 247

 Lacrosse Radar Imaging Satellite, 258
 Laika, 52
 Laird, Melvin R., 132, 133, 135, 172, 173

 Land, Edwin, 28
 Landsat, 250, 252, 253, 257, 258, 263
 Langley Aeronautical Laboratory, 65
 Langley Field (AFB), 3
 Laredo, Texas, 72
 Launch Operations Transfer Steering Committee, 240
 Launch Service Organization, 224
 Launch Vehicle Panel, 106
 Lawrence Radiation Laboratory, 149, 153
 Leaf, Howard, General, 202
 Leased Satellites (Leasat), 248
 Leghorn, Richard, Lt Col, 28
 LeMay, Curtis E., General, 9, 14, 16, 18, 19, 27, 48, 55, 78, 98, 102, 106, 114, 121, 130, 156, 157
 Lemnitzer, Lyman, General, 91
 LES-1 (Lincoln Laboratory Experimental Tactical Satellites), 144
 LES-5 (Lincoln Laboratory Experimental Tactical Satellites), 141, 144
 LES-6 (Lincoln Laboratory Experimental Tactical Satellites), 144
 Lewis Flight Propulsion Laboratory, 65
 Libya, 245
 Lighter Satellites (LIGHTSATS), 234
 Limited Nuclear Test Ban Treaty, 153
 Lincoln Laboratories, 72, 138, 144, 213
 Lipp, James E., 25, 36, 44
 Lockheed, 37, 44, 45, 71, 159, 167, 182, 213, 272
 Long Range Navigation (LORAN), 149, 150
 Long Range Proving Ground, 166
 Loring Air Force Base, Maine, 212, 251
 Los Angeles, California, 33, 34, 166, 169
 Low Data Rate Communications, 266
 Lunney, Glynn, 226

 MacIntyre, Malcolm A., 54, 66, 68, 70
 MACSAT, 267
 Mahe Island, Indian Ocean, 167
 Malina, Frank, 3, 7, 17
 Man Very High, 75
 Manned Orbital Research Laboratory, 124
 Manned Orbiting Laboratory (MOL), 97, 126-135, 167, 176, 180, 183, 273
 Manned Space Flight Panel, 106, 125

- Manned Space Flight Policy Committee (MSFPC), 131
- Manned Space Flight Support Group, 197
- March Field (AFB), 2
- Mark, Hans, Dr., 175, 193, 194, 198, 200
- Mars, 180
- Marsh, Robert T., General, 203
- Marshall Space Flight Center, 65
- Martin, Glenn L., 37
- Martin, John, 188
- Martin-Marietta, 124, 163
- Massachusetts Institute of Technology (MIT), 86
- Matador, 21
- Mathis, Robert C., General, 204
- Maui Optical Tracking and Identification Facility, 187
- Maxwell Air Force Base, Alabama, 275
- McAuliffe, Christa, 221
- McBride, William V., 191
- McCall, Gene H., 281
- McCartney, Forrest S., Lt Gen, 228
- McCone, John A., 23
- McCormack, John W., 61
- McDonnell Corporation, 130
- McElroy, Neil H., 19, 52, 53, 55, 57, 58, 76-79
- McKee, William F., General, 128
- McLucas, John L., Dr., 147, 172, 173, 198, 199
- McMillan, Brockway, Dr., 107, 111, 113, 122, 129, 130, 157
- McNamara, Robert, 89-92, 94, 96, 98-100, 105, 106, 111-113, 115, 116, 121-123, 125, 126, 128-130, 139, 140, 142, 154, 156, 158, 165, 169, 181, 273
- McNarney, Joseph T., Lt Gen, 18
- McPeak, Merrill, General, 244, 257, 275, 278-280, 282
- Medaris, John B., General, 42, 53, 65, 76, 78
- Medium Range Ballistic Missiles (MLBM), 159
- MER I, (Manned Earth Reconnaissance), 75
- Merritt Island, 107
- Meteor Satellites (European, Russian) (METEOSATs), 251
- MIDAS (Missile Launch Detection Alarm System), 45, 58, 66, 69, 71, 72, 77, 78, 84, 87, 94, 98, 103, 106, 117, 123, 152, 154-160, 166
- MIDAS 4 (Missile Launch Detection Alarm System 4), 157
- Middle East, 246, 247, 250, 255
- Military Airlift Command (MAC), 184, 252
- Military-Man-in-Space Project, 233
- Military Orbital Development System (MODS), 117, 121, 126
- Military Satellite Communications (MILSATCOM), 138, 139, 213, 265, 266
- Military Strategic and Tactical Relay System (Milstar), 212, 213, 266, 267, 282
- Millikan, Clark, Dr., 24, 157
- Millikan, Robert, Dr., 2
- Millikan Committee, 24
- Millstone Hill Radar, 72, 161
- Mina Al-Ahmadi Oil Complex, 258
- Miniature Homing Device, 188
- Miniature Homing Vehicle, 261
- Minitrak, 42, 65
- Minuteman ICBM, 150, 156, 158, 163, 164, 178
- MIRV (Multiple Independently Targeted Re-entry Vehicle), 178, 179
- MISS (Man-in-Space-Soonest), 74
- Missile Experimental (MX), 196
- Missile Systems Division (Lockheed), 44, 272
- Missile Warning Center, 237, 254
- MIT (Massachusetts Institute of Technology), 39
- Mobile System for Accurate ICBM Control (Mosaic), 150
- Moffett Field, 3
- Momyer, William, General, 141, 169
- Moorman, Thomas S., Jr., General, 194, 195, 200, 240, 246, 249, 252, 260, 275, 276
- Mosaic Sensor System, 185
- Moscow, Russia, 190
- MOUSE (Minimum Orbital Unmanned Satellite, Earth), 40
- Multiple Access Communications Satellite, 248
- Multi-spectral Imagery (MSI), 252-254, 263, 264
- Mutual Assured Destruction, 218
- Mutual Assured Survival, 218

- MX-1593, 23
 MX-774, 20
- NACA (National Advisory Committee for Aeronautics), 2
- Nagler, Gordon R., Vice Admiral, 206
- National Academy of Sciences, 7, 41, 61
- National Advisory Committee for Aeronautics (NACA), 2, 49, 61, 62, 65, 67, 75
- National Aeronautics and Space Act of 1958, 63, 64, 119
- National Aeronautics and Space Administration (NASA), 51, 57, 60, 62-66, 68, 70, 73, 75-77, 80, 81, 82, 87-89, 91-94, 96, 98-101, 104-108, 110, 111, 112, 119, 121-124, 126-128, 130-135, 137, 141, 146, 147, 162, 163, 165, 169, 170, 173, 177, 180-183, 190-192, 197, 199, 206, 221-229, 231, 233, 237, 239, 264, 272-274, 276
- National Aeronautics and Space Council (NASC), 63, 80, 81
- National Air and Space Administration (NASA), 2, 51, 57, 60
- National Command Authorities, 267
- National Launch System, 268, 276, 282
- National Oceanic and Atmospheric Administration (NOAA), 147, 148, 186, 190, 250, 252, 263
- National Operational Meteorological Satellite System (NOMSS), 147
- National Orbital Space Station (NOSS), 124
- National Range Division, 168, 169
- National Reconnaissance Office (NRO), 85, 94, 96, 147, 152, 228, 258, 262, 272, 274
- National Science Foundation, 41, 61
- National Security Act of 1947, 19
- National Security Action Memorandum (NSAM), 156, 110
- National Security Agency, 85
- National Security Council (NSC), 39, 41, 52, 55, 64, 69, 80, 85, 190
- National Security Council Decision Directive-42, 206
- National Security Council Review Committee, 190
- National Security Decision Memorandum-333, 188
- National Space Act of 1958, 2, 56, 81, 87
- National Space Club, 202, 224
- National Space Council, 238, 263, 276
- National Space Program, 92
- National Space Strategy (1985), 227
- NATO III, 246, 247
- Navaho, 21, 28
- Navaho Rocketdyne Engines, 21
- Navajo Blanket, 202
- Naval Research Laboratory, 17, 42, 65, 151
- Naval Space Command, 277
- Navigation Satellite Executive Committee (NAVSEG), 151
- Navstar Global Positioning System, 151, 185, 194, 212, 214, 215, 222, 248
- Navy Fleet Numerical Oceanography Center, 212
- New Boston, New Hampshire, 167
- New World Order, 243
- New World Vistas*, 281, 282
- New York Times*, 6
- Newhouse, John, 179
- Nha Trang, 170
- NIKE-ZEUS, 19
- Nimbus, 147, 170
- Nixon, Richard M., President, 86, 135, 178, 180, 182, 273
- Nixon Administration, 132, 136
- NORAD Space Defense Center, Cheyenne Mountain, Colorado, 162
- North American Aerospace (or Air) Defense Command (NORAD), 71, 155, 161, 179, 184, 186-188, 193, 197, 205, 218, 219, 237
- North American Aviation, 28
- North Atlantic Treaty Organization (NATO), 141, 214
- North Vietnam, 170
- Northrop Aircraft, 18
- Norton Air Force Base, California, 90
- Notus, 72, 77
- Nova, 92
- NSAM 156 Committee, 110, 112
- O'Malley, Jerome F., Lt Gen, 175, 198-202, 205-207
- Oahu, Hawaii, 167

- Oakland, California, 168
Oberth, Hermann, 5, 120
Office of Aerospace Research, 90
Office of Naval Research, 42
Office of Science and Technology Policy (OSTP), 190
Offutt Air Force Base, Nebraska, 148, 212, 251
Okinawa, 141
Onizuka Air Force Station, California, 216
Operation Castle, 32
Operation Desert Shield, 243, 245-257, 259, 260, 264, 268, 275
Operation Desert Storm, 242, 244, 245, 248-250, 255, 256, 258-262, 264-270, 275, 281, 283, 284
Operation Earnest Will, 245
Operation Eldorado Canyon, 244
Operation Just Cause, 245
Operation Paperclip, 6, 17
Operational Linescan System (OLS), 148, 186, 212, 251
Orbit to Orbit Shuttle (OOS), 182
ORDCIT (Ordnance, California Institute of Technology), 7
Orr, Verne, 204, 205, 219
Oslo, Norway, 162
Otis Air Force Base, Massachusetts, 187
Outer Space Treaty, 110
Overhage, Carl, 28
- Pacific Missile Range, 70, 166, 169
Pacific Ocean, 142, 143, 149, 162, 254
Packard, David, 133, 232
Padden, Maurice, Maj Gen, 232
Page, J. D., Brig Gen, 87
Palo Alto, California, 72, 167
Panama, 245
Panel on Operational Meteorological Satellites, 147
Panofsky, W.K.H., Dr., 155, 157
Parkinson, Bradford W., Colonel, 151
Patrick Air Force Base, Florida, 72, 166, 196, 240
Patriot Anti-Aircraft Missile, 254, 255, 259, 264
- Patterson, Robert, 9
Pave Low Helicopters, 257
PAVE PAWS radar, 187
Payload Assist Module (PAM-DII), 214
Peenemünde, 5
Persian Gulf, 242, 243, 245, 246, 248, 251, 253, 254, 256, 258, 259, 275
Peterson Air Force Base, Colorado, 211, 214
Philco-Ford, 140
Philippines, 141
Phillips, Samuel C., General, 228
Pilotless Aircraft Research Station (Wallops Island, Virginia), 65
Pioneer, 67, 72
Piotrowski, John L., General, 230-234, 237, 239
Point Mugu, California, 166
Polaris Sea Launched Ballistic Missile (SLBM), 39, 46, 72, 156, 158, 163
Polaroid, 28
Policy Review Committee, 191
Post Cold War Assessment of U.S. Space Policy, A, 276
Powell, Colin L., General, 256
Power, Thomas, General, 38, 44
Preliminary Design of an Experimental World Circling Spaceship, 271
President's Scientific Advisory Committee (PSAC), 63, 64, 155, 176
Presidential Directive 37, 190, 200
Presidential Directive 42, "US Civil Space Policy," 191
Presidential Review Memorandum-23, 190
Press, Frank, 190
Program 437, 188
Program 461, 159
Program 949, 160
Project 621B (Satellite System for Precise Navigation), 150, 151
Project Adam, 75
Project Apollo, 98, 101, 107, 125, 128, 131-133, 135, 149, 166, 180, 273
Project Aquatone, 39
Project Compass Link, 170
Project Decree, 138
Project Feed Back, 28, 29, 36, 48, 271

- Project Forecast, 131
 Project Gemini, 120, 121, 131, 133, 134, 166
 Project Harvest Moon (later Spacetrack), 72
 Project Hermes, 17
 Project Mercury, 65, 73, 75, 76, 77, 80, 84, 88, 94, 96, 108, 121, 134, 166
 Project Orbiter, 27, 41, 42, 52, 53
 Project RAND, 2, 8, 9, 14-17, 24-29, 31-33, 35-37, 39, 40, 44-46, 47, 49, 52, 69, 152, 271
 Project SCORE (Signal Communications by Orbiting Relay Equipment), 138
 Project Shepherd, 72
 Project Steer, 138, 144
 Project Tackle, 138
 Project THUMPER, 19
 Project Vanguard, 17, 42-49, 52, 65, 72
 Project West Ford, 138, 144
 Project WIZARD, 19
Proposal for a Reorganization of USAF Air Defense and Space Surveillance/Warning Resources (Green Book Study), 193
 Purcell, Edward, 63
 Purcell Panel, 63
 Putt, Donald L., General, 22, 23, 37, 46, 54, 55, 57

 Quarles, Donald, 40, 41, 42, 45-47, 52, 55, 62

 RADEC I sensor, 213
 Radio Corporation of America (RCA), 28, 37, 151
 Ramo, Simon, Dr., 37
 Ramo-Wooldridge Corporation, 33, 37, 86
 Randolph, Bernard, General, 202
 Randolph Air Force Base, Texas, 73
 Rapid Deployable Imagery Terminals (RDIT), 252
 Raytheon Company, 150
 Reagan, Ronald, President, 179, 201, 202, 205, 207, 209, 217-219, 225, 233, 266
 Reagan Administration, 175, 178, 201, 274
 Redstone, 17, 20, 21, 40, 42
 Redstone Arsenal (Huntsville, Alabama), 17, 40
 Research and Development Board, 19
 Rice, Donald B., 240

 Ridenour, Louis N., 15, 16, 21, 22, 28
 Ritland, O. J., Maj Gen, 112
 Riyadh, Saudi Arabia, 251
 Robo (Rocket Bomber), 74
 Rockefeller, Nelson, 41
 Rockwell International, 249, 257
 Rogers, William P., 222
 Rogers Commission, 228
 Rubel, John H., 85, 111-116
 Ruina Report, 157
 Rumsfeld, Donald, 189
 Russia, 5, 48, 52, 92, 102

 6594th Test Wing (Satellite), 167
 SA-6 Surface to Air Missile, 247
 Saegen, Eugen, Dr., 3
 Sahara Desert, 94
 Saigon, 170, 171
 Saigon, South Vietnam, 141
 Saint, 87, 98, 103, 109, 117, 123, 124
 SALT I (Strategic Arms Limitation Treaty I), 178
 Salter, Robert M., Jr., 36
 Samos, 69, 71, 72, 77, 78, 82, 84, 85, 87, 98, 103, 112, 152, 166
 San Antonio, Texas, 73
 San Diego, California, 47
 Sand Island, 162
 Santa Barbara, California, 166
 Satellite Control Facility, 183, 197
 Satellite Control Network, 239
 Satellite Probatoire d'Observation de la Terre/Exploratory Satellite for Earth Observation, (SPOT), 250, 252, 253, 257, 258, 263
 Satellite Test Center, 167, 168
 Satellite Test Center, 216
 Saturn, 65, 67, 78, 79
 Saturn IB, 128
 Saturn-Dyna-Soar, 75
 Saudi Arabia, 243, 245, 248, 253
 Schlesinger, James R., 178
 Schlesinger Doctrine, 178
 Schmitt, Harrison, 203
 Schriever, Bernard A., General, 33, 34, 38, 39, 43-45, 47, 49, 54, 57, 58, 64, 68-70, 76, 77, 86,

- 87, 89-91, 93, 98, 99, 101, 102, 114, 115, 129, 131, 134, 137, 156, 158, 164, 199, 271, 273
- Schultz, Kenneth W., Colonel, 129
- Schwarzkopf, Norman, General, 258
- Science Advisory Council, 132
- Scientific Advisory Board, 8, 21, 37, 39, 48, 56, 85, 198, 201, 271
- Scud Missile, 254, 255, 259, 264
- Seamans, Robert C., Jr., 106, 107, 122, 133, 181
- Selective Availability, 249, 250, 264
- Senate Commerce Committee, 176
- Sensor Evolutionary Development, 185
- Sentry, 71
- Sequential Correlation of Range (SECOR), 151
- Sharp, Dudley, 85
- Shemya, Alaska, 161, 186
- Shepard, Alan B., Jr., 110
- Shuttle Operations and Planning Complex (SOPC), 197, 216, 226, 232, 233
- Singer, Fred, Dr., 40
- Single Integrated Operations Plan (SIOP), 145
- Skylab, 133
- Small Lightweight GPS Receiver (SLGR), 250, 257
- Small Tactical Terminal, 252
- Smart, Jacob E., 177
- Smithsonian, The, 6
- Smithsonian Astrophysical Observatory, 72
- Snark, 21
- Son Tay, 170
- Sondrestrom Air Base, Greenland, 211
- South Vietnam, 141
- Southeast Asia Coastal Cable System, 171
- Southeast Asia(n), 166, 170, 244
- Soviet Fractional Orbital Bombardment (FOB), 160
- Soviet Union, 24, 30, 31, 35, 39, 40, 47, 50, 60, 64, 80, 84, 91, 92, 99, 100, 101, 115, 129, 134, 152, 155, 158, 159, 162, 178, 185, 190, 207, 229, 243, 271
- Soviet-American Détente, 177, 179, 188
- Spaatz, Carl A., General, 14, 18
- Space and Missile Systems Organization (SAMSO), 135, 169, 184, 196
- Space and Missile Test Center (SAMTEC), 169, 196
- Space and Missile Test Organization (SAMTO), 196, 239
- Space Command, 205-207, 209, 211-217, 274
- Space Council, 109
- Space Defense Operations Center (SPADOC), 194, 197, 198, 237
- Space Defense Working Group, 189
- Space Detection and Tracking System (SPADATS), 72, 86, 87, 94, 161, 186-188, 198
- Space Division, 196, 197, 199, 203, 204, 215, 216, 231, 232
- Space Launch Complex 6 (SLC-6), 183
- Space Launch Modernization Study* (Moorman Panel/Committee), 276-278
- Space Mission Organization Planning Executive Committee, 194
- Space Missions Organizational Planning Study*, 195, 196
- Space Objectives Paper, 130
- Space Operations Steering Committee, 205
- Space Operations Steering Group, 193
- Space Policy and Requirements Study*, 199, 201, 207
- Space Policy Overview, 202
- Space Road Map, 236, 241
- Space Shuttle, 4, 127, 133, 135, 164, 165, 166, 173, 175, 178, 180-184, 186, 194, 196, 197, 199, 206, 208-210, 212, 213, 221-229, 233, 237, 248, 268, 274
- Space Station *Freedom*, 233
- Space Surveillance Architecture Study 2000*, 207
- Space Surveillance Center, 237
- Space Systems Architecture 2000*, 189, 201, 207, 221
- Space Systems Division (AFSC), 90, 99, 109, 113, 114, 117, 129, 135, 139, 142, 150, 157, 168, 169, 249
- Space Task Group, 135, 180
- Space Technical Objectives Group, 116
- Space Technologies Laboratories, 163
- Space Technology Center, 205
- Space Technology Laboratory (STL), 86
- Space Transportation Architecture Study*, 227

- Space Transportation Committee, 181, 183
 Space Transportation System, 135
 Space Transportation Systems Group, 196
 Space Tug, 182, 183
 Space Warfare Center, 277
 SPACECAST 2020, 280, 281
 Spaced Based Infrared System (SBIR), 265
 Space-Ground Link Subsystem, 167
 Spacelab Program, 221
 Spacelifter, 268, 276, 282
 Spacetalk 94, 279
 Spacetrack, 94, 98, 161, 162
 Spasur (Space Surveillance), 72, 161
 Special Aircraft Project Office, 34
 Special Committee on Jet Propulsion, 4
 Special Committee on Self-Propelled
 Guided Missiles, 4
 Special Forces, 257
 Spitzer, Lyman, Jr., 25
 Sputnik, 2, 13, 14, 30, 39, 41, 44, 47-53, 55-57,
 60, 63, 65, 66, 72-74, 93, 94 120, 150, 272
Sputnik I, 51, 53
Sputnik II, 52
 Standard Launch Vehicle 1(SLV-1), 164
 Standard Launch Vehicle 2(SLV-2), 164
 Standard Launch Vehicle 2A(SLV-2A), 164
 Standard Launch Vehicle 2H(SLV-2H), 164
 Standard Launch Vehicle 3(SLV-3), 164
 Standard Launch Vehicle 3A(SLV-3A), 164
 Standard Launch Vehicle 3D(SLV-3D), 164
 Stanford Research Institute, 72
 Stans, Maurice H., 62
 Star Wars, 218
 Stennis, John, Sen., 82, 101, 102, 110
 Stetson, John, 194
 Stever, D. G., 61
 Stewart, Homer J., 42
 Stewart Committee, 42, 43, 44, 45
 Storrie, John H., Brig Gen, 201, 202
 Strategic Air Command (SAC), 71, 144, 147,
 148, 156, 184, 193, 195, 204, 211, 212, 214, 215,
 219, 234
 Strategic Defense Initiative (SDI), 178, 179,
 207, 218, 219, 227, 229, 237, 261
 Strategic Defense Initiative Organization,
 229, 234, 237, 261, 262, 264
 Strategic Missiles Evaluation Committee
 (SMEC), 32, 39
 Strategic Modernization Program, 178, 200-
 202
 Strategic Satellite System (Stratsat), 266
 Strughold, Hubertus, Dr., 73
 Submarine Launched Ballistic Missile
 (SLBM), 159, 160, 178, 254
 Sunnyvale, California, 142, 167, 168, 169, 183,
 197, 250
 Surprise Attack Panel, 32
 Symington, W. Stuart, 19, 68
 Symington Committee, 68, 70, 76
 Syncom (Synchronous Communication
 Satellite Program), 141, 170
 Tactical Air Command (TAC), 193, 195
 Tactical Exploitation of National Capabili-
 ties (TENCAP), 277
 Tactical Forecast Unit, 251
 Tactical Satellite (TACSAT), 145
 Talbott, Harold, 33
 Taylor, Maxwell D., General, 76
 Technological Capabilities Panel, 32, 39
 Television and Infra-Red Observing
 Satellite (TIROS), 146, 147
 Television and Infra-Red Observing
 Satellite I (TIROS I), 146, 147, 250
 Teller, Edward, Dr., 53
 Teller Report, 53, 56
 Thailand, 141
 Thanh Hoa Bridge, 170
 Thompson-Ramo-Wooldridge, Inc. (TRW),
 86, 142, 143, 150, 152, 153, 160
 Thor IRBM/Booster, 39, 46, 60, 70, 84, 94,
 113, 120, 163, 164, 272
 Thor-Able, 72
 Thor-Able II, 146
 Thor-Ablestar, 149
 Thor-Agena, 71
 Thor-Burner II, 148
 Thor-Delta, 142
 Thor-Delta/Able, 72
 Thule Air Base, Greenland, 162, 167, 211, 251
 Timation (Time Navigation), 151
 TIROS, 72, 165, 252

- Titan 34D, 186, 213, 221, 222, 224, 225
Titan ICBM/Booster, 34, 46, 158, 180, 228, 241
Titan II, 102, 107, 113, 212, 225, 227, 229, 238, 240
Titan III, 102, 107, 111, 113, 115, 121, 124, 126, 127, 140, 142, 160, 166, 225
Titan IIIA, 114, 144
Titan IIIC, 114, 126, 131, 140, 143, 144, 145, 159, 160, 163, 165
Titan IIID, 165
Titan IIIM, 131
Titan IV, 225-229, 233, 237, 238, 240, 262, 265, 267
Titov, Gherman S., 101
Todd, Robert, Maj Gen, 235
Tomahawk Cruise Missiles, 255
Ton Son Nhut Air Base, 170
Toward New Horizons, 10, 11, 271, 280, 281
Tracking and Data Relay Satellites, 222
Transit, 72, 87, 108, 110, 150
Transit IB, 149
Transtage, 163, 165
Triennial Report to Congress on Service Roles, Missions and Functions, 276
Trimble Navigation, 249, 250
Trinidad, British West Indies, 161, 162
Truly, Richard H., Admiral, 228
Truman, Harry S., President, 23, 24
Truman Administration, 20, 29, 48
Tsiolkovsky, Konstantin, 5
TU-4, 30
Turkey, 35
Twining, Nathan, General, 33
- U.S. Diplomatic Telecommunications Terminal, 247
U-2, 31, 39, 41, 84, 85
Ultra High Frequency Follow On Satellite (UFO), 267
Unified Command Plan, 220
United Nations, 80, 110, 243, 255
United States Central Command, 246, 247, 249, 252, 254-256, 258, 268
United States Space Command, 215-221, 229-233, 235-237, 239, 241, 247-249, 255, 256, 261, 265, 268, 276, 284
- United States Special Operations Command, 250
United States Strategic Command (USSTRATCOM), 276
University of Maryland, 40
Upper Stage Committee, 183
Urgent Fury, 244
USS Constellation, 170
USS Guadalcanal, 145
- V-1, 5
V-2, 5, 10, 14, 17
Van Allen belts, 53
Vance, Cyrus, 190
Vandenberg, Hoyt S., General, 20-22, 26, 27, 54
Vandenberg Air Force Base, California, 120, 129, 131, 133, 158, 159, 163, 164, 166, 167, 169, 183, 188, 196, 212, 223, 232, 278
Vanguard, 163
Vela, 171
Vela Hotel, 152, 153, 154
Vela Sierra, 153
Vela Uniform, 153
Venus, 138
Versailles Treaty, 5
Vietnam, 171
Vietnam War, 97, 132, 133, 147, 148, 169, 176, 177, 244
Viking, 17, 42
Von Braun, Wernher, 5, 14, 17, 40, 41, 42, 53, 75
Von Kármán, Theodore, Dr., 2, 3, 6, 7, 10-13, 20-22, 48, 49, 103, 270, 280, 281
Von Neumann, John, 32, 37
Von Neumann Committee, 32, 33, 87, 99
- WAC Corporal, 7, 17
Wallops Island, Virginia, 65
War Department, 18
Warner, John, 202
Weapon System 117L, 36, 41, 43-46, 49, 56, 58, 71, 165
Weather Bureau, 146, 170
Webb, James E., 92, 98, 107, 120, 122, 124, 125, 131

- Wehrmacht, 5
- Weinberger, Caspar, 205, 231
- Weisner, Jerome B., 86
- Weisner Committee, 86, 87, 88
- Weisner Report, 87, 89, 91
- Welch, Jasper, General, 202
- Welch, Larry D., General, 232, 234, 235, 239, 240
- West Pacific Narrow Coverage Satellite, 248
- Western Development Division, 33, 34, 37, 38, 43, 44, 272
- Western Space and Missile Center, 196
- Western Test Range, 163, 165, 166, 169
- Western Test Site, 166
- White, Thomas D., General, 54, 68, 76, 77, 83, 84, 87, 88, 89, 90, 91, 98, 155, 172, 191
- White Paper on Air Force Policy and Leadership in Space, 229, 230, 235
- White Sands, New Mexico, 17
- White Sands Proving Ground, 151
- Widnall, Sheila, 261, 278-281
- Wilkening, Laurel, 276
- Wilson, Charles, 31, 47
- Wilson, Roscoe C., Lt Gen, 69, 76, 79
- Woomera, Australia, 141, 254
- World War I, 5, 271
- World War II, 3-5, 14, 271
- Wright Development Center, 38, 120
- Wright-Patterson Air Force Base, Ohio, 38
- X-1, 4
- Yaeger, Charles (Chuck), 4
- Yates, Donald N., Maj Gen, 77, 107
- Yates, Ronald W. Lt Gen, 240
- York, Herbert F., 62, 63, 77, 78, 82, 91, 155
- Yuma, Arizona, 248
- Zuckert, Eugene, 90-93, 100, 101, 104, 105, 107, 108, 111, 112, 116, 117, 121, 127, 129, 158