

# Iain Reid

## List of Publications by Year in descending order

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134  
papers

4,188  
citations

156536

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all docs

140  
docs citations

140  
times ranked

1846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Parameter Estimation for Observation Error Modelling: Application to Meteor Radars. , 2022, , 185-213.		2
2	Design of Meteor and Ionospheric Irregularity Observation System and First Results. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
3	Analysis of RF Signatures for Space Domain Awareness using VHF radar. , 2022, , .		1
4	Comparison between the Mesospheric Winds Observed by Two Collocated Meteor Radars at Low Latitudes. Remote Sensing, 2022, 14, 2354.	1.8	6
5	Response of a Polarimetric Antenna to Ionospherically Propagated Signals. IEEE Transactions on Antennas and Propagation, 2021, 69, 7846-7854.	3.1	1
6	First Observations of Antarctic Mesospheric Tidal Wind Responses to Recurrent Geomagnetic Activity. Geophysical Research Letters, 2021, 48, e2020GL089957.	1.5	10
7	Climatology of Interhemispheric Mesopause Temperatures Using the Highâ€Latitude and Middleâ€Latitude Meteor Radars. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034301.	1.2	4
8	Error analyses of a multistatic meteor radar system to obtain a three-dimensional spatial-resolution distribution. Atmospheric Measurement Techniques, 2021, 14, 3973-3988.	1.2	2
9	Meteor radar observations of polar mesospheric summer echoes over Svalbard. Atmospheric Measurement Techniques, 2021, 14, 5015-5027.	1.2	2
10	Low Earth Orbit Object Observations Using the Buckland Park VHF Radar. Radio Science, 2020, 55, e2019RS006873.	0.8	7
11	Australian Lidar Measurements of Aerosol Layers Associated with the 2015 Calbuco Eruption. Atmosphere, 2020, 11, 124.	1.0	6
12	The possibility of using all-sky meteor radar to observe ionospheric E-region field-aligned irregularities. Science China Technological Sciences, 2019, 62, 1431-1437.	2.0	11
13	Climatology of the mesopause relative density using a global distribution of meteor radars. Atmospheric Chemistry and Physics, 2019, 19, 7567-7581.	1.9	14
14	Trends and Variability in Vertical Winds in the Southern Hemisphere Summer Polar Mesosphere and Lower Thermosphere. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11070-11085.	1.2	8
15	Multistatic meteor radar observations of gravity-waveâ€tidal interaction over southern Australia. Atmospheric Measurement Techniques, 2019, 12, 4791-4812.	1.2	22
16	Structure, Variability, and Meanâ€Flow Interactions of the January 2015 Quasiâ€2â€Day Wave at Middle and High Southern Latitudes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5981-6008.	1.2	7
17	Reply to Comment by Tsurutani et al. on â€First Observation of Mesosphere Response to the Solar Wind Highâ€Speed Streamsâ€. Journal of Geophysical Research: Space Physics, 2019, 124, 8169-8171.	0.8	1
18	Estimation of Mesospheric Densities at Low Latitudes Using the Kunming Meteor Radar Together With SABER Temperatures. Journal of Geophysical Research: Space Physics, 2018, 123, 3183-3195.	0.8	12

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19	High- and Middle-Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2018, 45, 436-444.	1.5	23
20	Stratospheric tropospheric wind profiling radars in the Australian network. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	18
21	Mesospheric radar wind comparisons at high and middle southern latitudes. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	15
22	VHF radar measurements of momentum flux using summer polar mesopause echoes. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	4
23	High-Altitude (0-100 km) Global Atmospheric Reanalysis System: Description and Application to the 2014 Austral Winter of the Deep Propagating Gravity Wave Experiment (DEEPWAVE). <i>Monthly Weather Review</i> , 2018, 146, 2639-2666.	0.5	47
24	Large-Amplitude Mountain Waves in the Mesosphere Accompanying Weak Cross-Mountain Flow During DEEPWAVE Research Flight RF22. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9992.	1.2	26
25	Momentum Flux Spectra of a Mountain Wave Event Over New Zealand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9980-9991.	1.2	15
26	Observations and Modeling of Traveling Ionospheric Disturbance Signatures From an Australian Network of Oblique Angle-of-Arrival Sounders. <i>Radio Science</i> , 2018, 53, 1089-1107.	0.8	13
27	Global tidal mapping from observations of a radar campaign. <i>Advances in Space Research</i> , 2017, 60, 130-143.	1.2	4
28	Response of neutral mesospheric density to geomagnetic forcing. <i>Geophysical Research Letters</i> , 2017, 44, 8647-8655.	1.5	23
29	First observation of mesosphere response to the solar wind high-speed streams. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9080-9088.	0.8	20
30	Interferometer angle-of-arrival determination using precalculated phases. <i>Radio Science</i> , 2017, 52, 1058-1066.	0.8	13
31	Seasonal MLT-region nightglow intensities, temperatures, and emission heights at a Southern Hemisphere midlatitude site. <i>Annales Geophysicae</i> , 2017, 35, 567-582.	0.6	9
32	Mesospheric gravity wave momentum flux estimation using hybrid Doppler interferometry. <i>Annales Geophysicae</i> , 2017, 35, 733-750.	0.6	2
33	A low-cost digital holographic imager for calibration and validation of cloud microphysics remote sensing. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
34	The Deep Propagating Gravity Wave Experiment (DEEPWAVE): An Airborne and Ground-Based Exploration of Gravity Wave Propagation and Effects from Their Sources throughout the Lower and Middle Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 425-453.	1.7	148
35	A method for estimating the height of a mesospheric density level using meteor radar. <i>Geophysical Research Letters</i> , 2015, 42, 6106-6111.	1.5	21
36	MF and HF radar techniques for investigating the dynamics and structure of the 50 to 110 km height region: a review. <i>Progress in Earth and Planetary Science</i> , 2015, 2, .	1.1	24

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37	Momentum flux estimates accompanying multiscale gravity waves over Mount Cook, New Zealand, on 13 July 2014 during the DEEPWAVE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9323-9337.	1.2	45
38	Simultaneous observations of the phase-locked 2 day wave at Adelaide, Cerro Pachon, and Darwin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1808-1825.	1.2	7
39	Observations of the new Camelopardalids meteor shower using a 38.9MHz radar at Mohe, China. <i>Icarus</i> , 2015, 253, 25-30.	1.1	10
40	A stratospheric tropospheric wind profiling radar for use in operational weather forecasting. , 2014, , .		1
41	Seasonal variations of the nighttime O( <sup>1</sup> S) and OH (8 $\mu$ ) airglow intensity at Adelaide, Australia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6991-7013.	1.2	25
42	The diffusion of multiple ionic species in meteor trails. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 118, 119-123.	0.6	3
43	Bias correction and overall performance of a VHF Spaced Antenna boundary layer profiler for operational weather forecasting. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 118, 16-24.	0.6	7
44	Structural evolution of long-duration meteor trail irregularities driven by neutral wind. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,348.	0.8	9
45	The effects of deionization processes on meteor radar diffusion coefficients below 90 km. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10027-10043.	1.2	27
46	Observational evidence of high-altitude meteor trail from radar interferometer. <i>Geophysical Research Letters</i> , 2014, 41, 6583-6589.	1.5	7
47	Physical principles demonstrate that the biceps femoris muscle relative to the other hamstring muscles exerts the most force: implications for hamstring muscle strain injuries. <i>Muscles, Ligaments and Tendons Journal</i> , 2014, 4, 371-7.	0.1	16
48	The effect of recombination and attachment on meteor radar diffusion coefficient profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3037-3043.	1.2	22
49	Gravity wave generation by convection and momentum deposition in the mesosphere-lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6233-6245.	1.2	17
50	Mutual coupling of antennas in a meteor radar interferometer. <i>Radio Science</i> , 2013, 48, 118-121.	0.8	7
51	Rainfall studies using co-located VHF and UHF wind profiling radars. , 2013, , .		1
52	An intense traveling airglow front in the upper mesosphere-lower thermosphere with characteristics of a bore observed over Alice Springs, Australia, during a strong 2 day wave episode. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
53	Long-term variability of mean winds in the mesosphere and lower thermosphere at low latitudes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
54	A comparison of lower thermospheric winds derived from range spread and specular meteor trail echoes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18

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55	Meteor shower velocity estimates from single-station meteor radar: accuracy and precision. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1473-1478.	1.6	5
56	Observations of the phase-locked 2 day wave over the Australian sector using medium-frequency radar and airglow data. Journal of Geophysical Research, 2010, 115, .	3.3	32
57	Gravity wave flux retrievals using meteor radars. Geophysical Research Letters, 2010, 37, .	1.5	25
58	A southern hemisphere survey of meteor shower radiants and associated stream orbits using single station radar observations. Monthly Notices of the Royal Astronomical Society, 2009, 398, 350-356.	1.6	21
59	Antarctic meteor observations using the Davis MST and meteor radars. Advances in Space Research, 2008, 42, 143-154.	1.2	32
60	Modeling and observing the effect of aerosols on meteor radar measurements of the atmosphere. Geophysical Research Letters, 2008, 35, .	1.5	14
61	An empirical model of the Earth's horizontal wind fields: HWM07. Journal of Geophysical Research, 2008, 113, .	3.3	448
62	A case study of the mesospheric 6.5-day wave observed by radar systems. Journal of Geophysical Research, 2008, 113, .	3.3	27
63	All-sky interferometric meteor radar meteoroid speed estimation using the Fresnel transform. Annales Geophysicae, 2007, 25, 385-398.	0.6	18
64	The variability of 558nm OI nightglow intensity measured over Adelaide, Australia. Advances in Space Research, 2007, 39, 1237-1247.	1.2	11
65	Meteor observations using the Davis mesosphere-stratosphere-troposphere radar. Journal of Geophysical Research, 2006, 111, .	3.3	17
66	Antarctic mesospheric temperature estimation using the Davis mesosphere-stratosphere-troposphere radar. Journal of Geophysical Research, 2006, 111, .	3.3	43
67	Characteristics of the wind, temperature and PMSE field above Davis, Antarctica. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 418-435.	0.6	33
68	The 16-day waves in the mesosphere and lower thermosphere over Wuhan (30.6°N, 114.5°E) and Adelaide (35°S, 138°E). Advances in Space Research, 2005, 35, 2005-2010.	1.2	21
69	Lunar tidal winds in the mesosphere over Wuhan and Adelaide. Advances in Space Research, 2005, 36, 2218-2222.	1.2	11
70	Three-field photometer observations of short-period gravity wave intrinsic parameters in the 80 to 100 km height region. Journal of Geophysical Research, 2005, 110, .	3.3	7
71	Mount Gambier (38°S, 141°E) prototype VHF wind profiler. Radio Science, 2005, 40, n/a-n/a.	0.8	6
72	Comparisons of full correlation analysis (FCA) and imaging Doppler interferometry (IDI) winds using the Buckland Park MF radar. Annales Geophysicae, 2004, 22, 3829-3842.	0.6	23

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73	The Buckland Park MF radar: routine observation scheme and velocity comparisons. <i>Annales Geophysicae</i> , 2004, 22, 3815-3828.	0.6	24
74	Meteor radar response function: Application to the interpretation of meteor backscatter at medium frequency. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	6
75	MF radar measurements of sub-scale mesospheric momentum flux. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	4
76	Intraseasonal oscillations of the zonal wind near the mesopause observed with medium-frequency and meteor radars in the tropics. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	32
77	Occurrence characteristics of medium-scale gravity waves observed in OH and OI nightglow over Adelaide (34.5°S, 138.5°E). <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	16
78	Buckland Park all-sky interferometric meteor radar. <i>Radio Science</i> , 2004, 39, n/a-n/a.	0.8	146
79	Interferometric meteor radar phase calibration using meteor echoes. <i>Radio Science</i> , 2004, 39, n/a-n/a.	0.8	24
80	First polar mesosphere summer echoes observed at Davis, Antarctica (68.6°S). <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	36
81	VHF profiler observations of winds and waves in the troposphere during the Darwin Area Wave Experiment (DAWEX). <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	17
82	On the Use of 50-MHz RASS in Thunderstorms. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 936-943.	0.5	2
83	Global-scale tidal structure in the mesosphere and lower thermosphere during the PSMOS campaign of June–August 1999 and comparisons with the global-scale wave model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 1011-1035.	0.6	62
84	Long-Period wind oscillations in the mesosphere and lower thermosphere at Yamagawa (32°N,131°E), Pontianak (0°N,109°E) and Christmas Island (2°N,157°W). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 1055-1067.	0.6	12
85	Long-term variations of atmospheric wave activity in the mesosphere and lower thermosphere region over the equatorial Pacific. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 1123-1129.	0.6	10
86	Global-scale tidal variability during the PSMOS campaign of June–August 1999: interaction with planetary waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 1865-1896.	0.6	70
87	Collision frequencies in the D-region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 2043-2054.	0.6	15
88	Differential absorption measurements of mesospheric and lower thermospheric electron densities using the Buckland Park MF radar. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 2029-2042.	0.6	22
89	A comparison of tropospheric VHF Doppler beam steering and full correlation analysis measurements of aspect sensitivity. <i>Radio Science</i> , 2001, 36, 955-964.	0.8	7
90	Mesospheric turbulent velocity estimation using the Buckland Park MF radar. <i>Annales Geophysicae</i> , 2001, 19, 1007-1017.	0.6	31

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91	Comparison of atmospheric parameters derived from meteor observations with CIRA. <i>Radio Science</i> , 2000, 35, 833-843.	0.8	55
92	Evidence of tilted layers in angle of arrival and Doppler beam steering power measurements. <i>Radio Science</i> , 2000, 35, 983-997.	0.8	6
93	Analysis and interpretation of airglow and radar observations of quasi-monochromatic gravity waves in the upper mesosphere and lower thermosphere over Adelaide, Australia (35°S, 138°E). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999, 61, 461-478.	0.6	156
94	Observations of atmospheric waves in the tropical Pacific with radars and radiosondes. <i>Advances in Space Research</i> , 1999, 24, 1591-1600.	1.2	1
95	Two-day wave structure and mean flow interactions observed by radar and High Resolution Doppler Imager. <i>Journal of Geophysical Research</i> , 1999, 104, 3953-3969.	3.3	47
96	Coordinated radar observations of atmospheric diurnal tides in equatorial regions. <i>Earth, Planets and Space</i> , 1999, 51, 579-592.	0.9	33
97	Longitudinal variations in planetary wave activity in the equatorial mesosphere. <i>Earth, Planets and Space</i> , 1999, 51, 665-674.	0.9	50
98	Meteor observations with an MF radar. <i>Earth, Planets and Space</i> , 1999, 51, 691-699.	0.9	30
99	Reply [to "Comment on Paper: "Trends of airglow imager observations near Adelaide, Australia" by J. H. Hecht, R. E. Walterscheid, J. Woithe, L. Campbell, R. A. Vincent, and I. M. Reid"]. <i>Geophysical Research Letters</i> , 1998, 25, 23-23.	1.5	1
100	A VHF boundary layer radar: First results. <i>Radio Science</i> , 1998, 33, 845-860.	0.8	36
101	Trends of airglow imager observations near Adelaide, Australia. <i>Geophysical Research Letters</i> , 1997, 24, 587-590.	1.5	22
102	Short-period fluctuations of the diurnal tide observed with low-latitude MF and meteor radars during CADRE: Evidence for gravity wave/tidal interactions. <i>Journal of Geophysical Research</i> , 1997, 102, 26225-26238.	3.3	51
103	Equatorial dynamics observed by rocket, radar, and satellite during the CADRE/MALTED campaign: 2. Mean and wave structures, coherence, and variability. <i>Journal of Geophysical Research</i> , 1997, 102, 26191-26216.	3.3	19
104	An investigation of biases in the full correlation analysis technique. <i>Advances in Space Research</i> , 1997, 20, 1269-1272.	1.2	12
105	The spatial correlation analysis revisited. <i>Advances in Space Research</i> , 1997, 20, 1281-1284.	1.2	3
106	A comparison of meteor radar systems at Buckland Park. <i>Radio Science</i> , 1996, 31, 1313-1329.	0.8	11
107	Simulation of lidar measurements of gravity waves in the mesosphere. <i>Journal of Geophysical Research</i> , 1996, 101, 9509-9522.	3.3	4
108	Mesospheric gravity waves at Saskatoon (52°N), Kyoto (35°N), and Adelaide (35°S). <i>Journal of Geophysical Research</i> , 1996, 101, 7005-7012.	3.3	45

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109	On the measurement of gravity waves, tides and mean winds in the low and middle latitude mesosphere and thermosphere with MF radar. <i>Advances in Space Research</i> , 1996, 18, 131-140.	1.2	12
110	Comparison of simultaneous wind measurements using colocated VHF meteor radar and MF spaced antenna radar systems. <i>Radio Science</i> , 1995, 30, 1245-1261.	0.8	70
111	A simple model of atmospheric radar backscatter: Description and application to the full correlation analysis of spaced antenna data. <i>Radio Science</i> , 1995, 30, 1263-1280.	0.8	78
112	The new Adelaide medium frequency Doppler radar. <i>Radio Science</i> , 1995, 30, 1177-1189.	0.8	31
113	Some preliminary results obtained with the new Adelaide MF Doppler radar. <i>Radio Science</i> , 1995, 30, 1191-1203.	0.8	20
114	On the spaced antenna and imaging Doppler interferometer techniques. <i>Radio Science</i> , 1995, 30, 885-901.	0.8	16
115	Spaced antenna analysis of atmospheric radar backscatter model data. <i>Radio Science</i> , 1995, 30, 1417-1433.	0.8	23
116	Australian Antarctic lidar facility. , 1994, , .		3
117	Multiple-frequency studies of the high-latitude summer mesosphere : implications for scattering processes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1990, 52, 907-926.	0.9	50
118	Radar observations of stratified layers in the mesosphere and lower thermosphere (50–100 km). <i>Advances in Space Research</i> , 1990, 10, 7-19.	1.2	29
119	VHF radar observations of the dynamics of the summer polar mesopause region. <i>Journal of Geophysical Research</i> , 1990, 95, 10005-10016.	3.3	46
120	First VHF radar measurements of mesopause summer echoes at mid-latitudes. <i>Geophysical Research Letters</i> , 1989, 16, 135-138.	1.5	47
121	VHF radar echoes observed in the summer and winter polar mesosphere over Andøya, Norway. <i>Journal of Geophysical Research</i> , 1989, 94, 5199-5217.	3.3	86
122	MF Doppler and spaced antenna radar measurements of upper middle atmosphere winds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1988, 50, 117-134.	0.9	23
123	VHF radar measurements of the aspect sensitivity of the summer polar mesopause echoes over Andenes (69°N,16°E), Norway. <i>Geophysical Research Letters</i> , 1988, 15, 1259-1262.	1.5	64
124	VHF radar measurements of momentum flux in the summer polar mesosphere over Andenes (69°N,16°E), Norway. <i>Geophysical Research Letters</i> , 1988, 15, 1263-1266.	1.5	56
125	Measurements of mesospheric gravity wave momentum fluxes and mean flow accelerations at Adelaide, Australia. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1987, 49, 443-460.	0.9	121
126	Some aspects of Doppler radar measurements of the mean and fluctuating components of the wind field in the upper middle atmosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1987, 49, 467-484.	0.9	36



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127	Measurements of the horizontal scales and phase velocities of short period mesospheric gravity waves at Adelaide, Australia. Journal of Atmospheric and Solar-Terrestrial Physics, 1987, 49, 1033-1048.	0.9	46
128	VHF radar observations of cat's-eye-like structures at mesospheric heights. Nature, 1987, 327, 43-45.	13.7	31
129	Gravity wave motions in the upper middle atmosphere (60-110 km). Journal of Atmospheric and Solar-Terrestrial Physics, 1986, 48, 1057-1072.	0.9	50
130	Observations of mesospheric wind velocities: 1. Gravity wave horizontal scales and phase velocities determined from spaced wind observations. Radio Science, 1985, 20, 1363-1382.	0.8	74
131	Observations of mesospheric wind velocities: 2. Cross sections of power spectral density for 48-8 hours, 8-1 hours, and 1 hour to 10 min over 60-110 km for 1981. Radio Science, 1985, 20, 1383-1402.	0.8	108
132	HF Doppler Measurements of Mesospheric Gravity Wave Momentum Fluxes. Journals of the Atmospheric Sciences, 1983, 40, 1321-1333.	0.6	335
133	Atmospheric radar for the 0.5-110 km region. , 0, , .		2
134	Mesospheric and lower thermospheric observations using the Buckland Park medium frequency radar. , 0, , .		1