

PyIRTAM Output Parameters					
Name of parameter	Explanation	Type	Keys	Units	Size
f2_iri	Dictionary with PyIRI parameters for F2 layer	Dictionary	'Nm' is peak density in m-3 'fo' is critical frequency in MHz 'M3000' is the obliquity factor for a distance of 3,000 km 'hm' is peak height in km 'B_top' is thickness of the topside in km 'B_bot' is thickness of the bottomside in km	m-3 MHz unitless km km km	[Nt, Ng]
f1_iri	Dictionary with PyIRI parameters for F1 layer	Dictionary	'Nm' is peak density in m-3 'fo' is critical frequency in MHz 'P' is probability density for occurrence of F1 layer 'hm' is peak height in km 'B_bot' is thickness of the bottomside in km	m-3 MHz unitless km km	[Nt, Ng]
e_iri	Dictionary with PyIRI parameters for E layer	Dictionary	'Nm' is peak density in m-3 'fo' is critical frequency in MHz 'hm' is peak height in km 'B_top' is thickness of the topside in km 'B_bot' is thickness of the bottomside in km	m-3 MHz km km km	[Nt, Ng]
es_iri	Dictionary with PyIRI parameters for sporadic E layer	Dictionary	'Nm' is peak density in m-3 'fo' is critical frequency in MHz 'hm' is peak height in km 'B_top' is thickness of the topside in km 'B_bot' is thickness of the bottomside in km	m-3 MHz km km km	[Nt, Ng]
sun	Dictionary with the subsolar	Dictionary	'lon' is longitude of subsolar point in degrees 'lat' is latitude of subsolar point in degrees	degrees degrees	[Nt]
mag	Dictionary with magnetic parameters	Dictionary	'inc' is inclination of magnetic field in degrees 'modip' is modified dip angle in degrees 'mag_dip_lat' magnetic dip latitude in degrees	degrees degrees degrees	[Ng]
edp_iri	PyIRI 3-D electron density	Numpy array		m-3	[Nt, Nv, Ng]
f2_irtam	Dictionary with PyIRTAM parameters for F2 layer	Dictionary	'Nm' is peak density in m-3 'hm' is peak height in km 'B0' thickness of the bottom side in km 'B1' shape parameter in km 'B_top' is thickness of the topside in km	m-3 km km km km	[Nt, Ng]
f1_irtam	Dictionary with PyIRTAM parameters for F1 layer	Dictionary	'Nm' is peak density in m-3 'hm' is peak height in km 'B_bot' is thickness of the bottomside in km 'P' is probability density for occurrence of F1 layer	m-3 km km unitless	[Nt, Ng]
e_irtam	Dictionary with PyIRTAM parameters for E layer	Dictionary	'Nm' is peak density in m-3 'hm' is peak height in km 'B_top' is thickness of the topside in km 'B_bot' is thickness of the bottomside in km	m-3 km km km	[Nt, Ng]
es_irtam	Dictionary with PyIRTAM parameters for sporadic E layer	Dictionary	'Nm' is peak density in m-3 'hm' is peak height in km 'B_top' is thickness of the topside in km 'B_bot' is thickness of the bottomside in km	m-3 km km km	[Nt, Ng]
edp_irtam	PyIRTAM 3-D electron density	Numpy array		m-3	[Nt, Nv, Ng]