ECMWF GRIB	PCMDI short name	CF name	Field name	MKS Units	Cell_methods	Remarks
1) Atmosphere (2D)						
167.128	tas	air_temperature	2-metre temperature	K		use a scalar coordinate variable to indicate the height (1.5 or 2 m)
201.190	tasmax	air_temperature	Daily maximum 2-m temperature	K	time:maximum (interval 6h)	use a scalar coordinate variable to indicate the height (1.5 or 2 m)
202.190	tasmin	air_temperature	Daily minimum 2-m temperature	K	time:minimum (interval 6h)	use a scalar coordinate variable to indicate the height (1.5 or 2 m)
139.128	ts	surface_temperature	Surface temperature	K		SST over sea, soil temperature over land and ice temperature over sea ice; different from CF definition
165.128	uas	eastward_wind	10-metre U wind	m s-1		use a scalar coordinate variable to indicate the height
166.128	vas	northward_wind	10-metre V wind	m s-1		use a scalar coordinate variable to indicate the height
168.128	tdps	dew_point_temperature	2-metre dew point temperature	K		use a scalar coordinate variable to indicate the height (1.5 or 2 m)
151.128	psl	air_pressure_at_sea_level	Mean sea level pressure	Pa		
228.190	prlr	lwe_precipitation_rate	Total precipitation	m s-1	time:sum	
182.190	evlwr	lwe_water_evaporation_rate	Evaporation	m s-1	time:sum	
164.128	clt	cloud_area_fraction	Total cloudiness (Fraction)	1		
146.190	hfssd	surface_downward_sensible_heat_flux	Sensible heat flux at surface	W m-2	time:sum	
147.190	hflsd	surface_downward_latent_heat_flux	Latent heat flux at surface	W m-2	time:sum	
176.190	rss	surface_net_downward_shortwave_flux	Net SW surface radiation	W m-2	time:sum	
169.190	rsds	surface_downwelling_shortwave_flux_in_air	Downward SW surface radiation	W m-2	time:sum	
177.190	rls	surface_net_downward_longwave_flux	Net LW surface radiation	W m-2	time:sum	
175.190	rlds	surface_downwelling_longwave_flux_in_air	Downward LW surface radiation	W m-2	time:sum	
178.190	rst	toa_net_downward_shortwave_flux	Top net SW	W m-2	time:sum	
179.190	rlut	toa_net_downward_longwave_flux	Top net LW	W m-2	time:sum	
229.190	mrsov	volume_fraction_of_water_in_soil	Total soil moisture content	m3 m-3	soil_layers: sum	
141.128	snld	lwe_thickness_of_surface_snow_amount	Snow depth	m		

2) Atmosphere (3D)						
130.128	ta	air_temperature	T	K		
131.128	ua	eastward_wind	U	m s-1		
132.128	va	northward_wind	V	m s-1		
129.128	g	geopotential	Z	m2 s-2		
133.128	hus	specific_humidity	Q	kg kg-1		

3) Ocean (2-D)						
145.151	zoh	sea_surface_height_above_geoid	Sea level	m		
148.151	zmlo	ocean_mixed_layer_thickness	Mixed layer depth	m		
163.151	t20d	depth	20C isotherm depth	m		use a scalar coordinate variable sc with standard_name sea_water_potential_temperature, units in K and value 293.15
164.151	thetaot	sea_water_potential_temperature	300m averaged temperature	K	depth:mean	use a scalar coordinate variable with standard_name depth to specify the range of depths used in the averaging, units in m and value 150; this variable is used in the cell_method

4) Ocean (3-D)						
129.151	thetao	sea_water_potential_temperature	T	K		
130.151	so	sea_water_salinity	S	PSU		
131.151	uo	sea_water_x_velocity	U	m s-1		
132.151	vo	sea_water_y_velocity	V	m s-1		
133.151	wo	upward_sea_water_velocity	W	m s-1		

5) Constant Fields						
172.128	sftlf	land_area_fraction	Land-sea mask 1 land, 0 sea	1		
129.128	goro	surface_geopotential	Orography	m2 s-2		s2d GRIB uses m2 s-2 units instead of m for this field; otherwise, the field would be called "surface_altitude"