API Changes							
Method name	Old value (880)	New value (890)	Marked backward compatible in 880	Interface (880)	Interface (890)	Rationale for change	Impact
Added Optional Arguments							
						This change allows the user to retrieve	
						the generic representation of the	
ESMF_FieldBundleGetListAll	N/A	geom	Yes	25.5.10	26.5.10	geometry.	No impact.
		footowi int				This change allows the user to retrieve	
ESMF FieldRegridStoreX	N/A	factorList, factorIndexList,	Yes	26.6.72	27.6.72	the weight matrix representation of the regridding.	No impact.
LOWI _1 leiditegridotorex	IN/A	iacionnuexcisi,	163	20.0.72	21.0.12	New feature to enable ESMF vector	No impact.
ESMC FieldRegridStoreFile	N/A	vectorRegrid	No	16.4.15	16.4.16	regridding via C API	No Impact.
						New feature to enable ESMF vector	
ESMC_FieldRegridStore	N/A	vectorRegrid	No	16.4.14	16.4.15	regridding via C API	No Impact.
						New feature to allow user to specify	
FSMDy Field Constructor ( is:4 )	NI/A	grid_to_field_m	No	See ESMPy	See ESMPy	custom maps between the Grid's indices	No Impact
ESMPy: Field Constructor (_init_)	N/A	ар	No	documentation See ESMPy	documentation See ESMPy	and the Field's indices.  New feature to enable ESMF vector	No Impact.
ESMPy: Regrid Constructor ( init )	N/A	vector regrid	No	documentation	documentation	regridding via ESMPy	No Impact.
	13// 3	. Jotoi_regrid		200amontation	230dinontation	gg via Lovin y	
Added Methods							
						Allow the user to redirect the stdout and	
						stderr streams under a componet to	
ESMF_GridCompSetVMStdRedirect	N/A	N/A	No	N/A	17.4.28	specified file(s).	No impact.
						Allow the user to redirect the stdout and	
ESMF CplCompSetVMStdRedirect	N/A	N/A	No	N/A	18.4.28	stderr streams under a componet to	No impact.
ESIMP_CpiCompSetViviStaRedirect	IN/A	IN/A	INU	IN/A	10.4.20	specified file(s).  Allow user to get the local DE counts	No impact.
ESMC ArrayGetLocalDECount	N/A	N/A	No	N/A	17.2.4	from Array object.	No impact.
						Allow user to get the local DE counts	
ESMC_FieldGetLocalDECount	N/A	N/A	No	N/A	16.4.12	from Field object.	No impact.
						Allow user to get the local DE counts	
ESMC_GridGetLocalDECount	N/A	N/A	No	N/A	19.5.11	from Grid object.	No impact.
						Added new exception,	
						SingleLocalDEMethod, which is	
						raised when calling a method that	
					Caa FOMD	only works with one DE per PET when there are multiple DEs on the	
ESMPy: singleLocalDEMethod	N/A	N/A	No	N/A	See ESMPy documentation	current PET.	No impact.
LOWI y. SINGIELOCAIDLIVIEUTOU	11//-1	IN/F1	INO	IN//A	Gocumentation	supporting multiple decomposition	inpact.
						elements (DEs) on a single Persistent	
					See ESMPy	Execution Thread (PET).	
ESMPy: Field: all_data	N/A	N/A	No	N/A	documentation	·	No impact.
						supporting multiple decomposition	
					Soo ESMDy	elements (DEs) on a single Persistent	
ESMPy: Field: all lower bounds	N/A	N/A	N/A	N/A	See ESMPy documentation	Execution Thread (PET).	No impact.
	14// (	13// 3	14// \	14// \	assumentation	supporting multiple decomposition	Tro impuot.
						elements (DEs) on a single Persistent	
					See ESMPy	Execution Thread (PET).	
ESMPy: Field: all_upper_bounds	N/A	N/A	N/A	N/A	documentation		No impact.
						supporting multiple decomposition	
					See ESMDy	elements (DEs) on a single Persistent Execution Thread (PET).	
ESMPy: Field: local de count	N/A	N/A	N/A	N/A	See ESMPy documentation	LAGGULIOIT TITEAU (PET).	No impact.
_Own y. r leid. local_de_count	14/7	14// 1	11//1	111/7	accumentation		140 impaot.

EOMD a Octoball	N/A	<b>N/A</b>	N/A	N/A	See ESMPy	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No Second
ESMPy: Grid: all_areas	N/A	N/A	N/A	N/A	documentation	and a street of the street of	No impact.
ESMPy: Grid: all coords	N/A	N/A	N/A	N/A	See ESMPy documentation	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No impact.
ESMPy: Grid: all masks	N/A	N/A	N/A	N/A	See ESMPy documentation	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No impact.
ESMPy: Grid: all_sizes	N/A	N/A	N/A	N/A	See ESMPy documentation	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No impact.
ESMPy: Grid: all_lower_bounds	N/A	N/A	N/A	N/A	See ESMPy documentation	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No impact.
ESMPy: Grid: all_upper_bounds	N/A	N/A	N/A	N/A	See ESMPy documentation	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No impact.
ESMPy: Grid: local_de_count	N/A	N/A	N/A	N/A	See ESMPy documentation	supporting multiple decomposition elements (DEs) on a single Persistent Execution Thread (PET).	No impact.
Argument Intent Changes							
Argument intent changes	intent(in)	intent(inout)				Change the intent attribute on the hoonfig.	Change the intent attribute on the hconfig
ESMF_HConfigSet	hconfig	hconfig	No	48.6.46	49.6.46		argument to be correct for a Set method.
ESMF_HConfigSetMapKey	intent(in) hconfig	intent(inout) hconfig	No	48.6.47	49.6.47	Change the intent attribute on the hconfig argument to be correct for a Set method.	Change the intent attribute on the hconfig argument to be correct for a Set method.  User code that incorrectly passes a
ESMF_HConfigSetMapVal	intent(in) hconfig	intent(inout) hconfig	No	48.6.48	49.6.48	Change the intent attribute on the hconfig argument to be correct for a Set method.	dummy hconfig argument with intent(in)
New Classes							
						Provide a public interface to the ESMF InternalState concept that allows a user to associate a private data block with an ESMF Component. Through the InternalState API a user can attach a private data block to a Component, and later retrieve a pointer to this memory	
ESMF_InternalState	N/A	N/A	N/A	N/A	22	allocation.	No impact.
Deprecated Classes, Methods, Arguments	To be removed in 9.0.0						
Deprecated Classes							
deprecated since 8.1.0:							

						The underlying implementation for	Code that uses the legacy ESMF_Attribute API through derived
ESMF_Attribute	N/A	N/A	No	55	55	metadata storage has changed and is available through the native ESMF_Info API.	type, methods, or named constants should migrate to use the ESMF_Info class API.
Deprecated Methods							
deprecated since 8.9.0:						The ESMF InternalState class API	Code that uses this interface should be
ESMF_GridCompGetInternalState	N/A	N/A	Yes	17.4.8	17.4.8	provides a more consistent interface to the internal state functionality.	changed to use the ESMF_InternalState API instead.
ESMF GridCompSetInternalState	N/A	N/A	Yes	17.4.18	17.4.18	The ESMF_InternalState class API provides a more consistent interface to the internal state functionality.	Code that uses this interface should be changed to use the ESMF_InternalState API instead.
Lowii _ondoompoetintemalotate	TW/FA	IVA	163	17.4.10	17.4.10	The ESMF_InternalState class API	Code that uses this interface should be
ESMF_CplCompGetInternalState	N/A	N/A	Yes	18.4.8	18.4.8	provides a more consistent interface to the internal state functionality.	changed to use the ESMF_InternalState API instead.
						The ESMF_InternalState class API	Code that uses this interface should be
ESMF CplCompSetInternalState	N/A	N/A	Yes	18.4.18	18.4.18	provides a more consistent interface to the internal state functionality.	changed to use the ESMF_InternalState API instead.
deprecated since 5.3.1:	IN/A	IN/A	163	10.4.10	10.4.10	the internal state functionality.	Ar i ilisteau.
doprocated office c.c. 1.						A different overload of the method exists	Code that uses the scalar version of
						that is more consisent with the overall	ESMF_StateRemove() should change to
ESMF_StateRemove	N/A	N/A	Yes	21.7.15	21.7.15	API.	the list version.
Deprecated Arguments							
deprecated since 8.6.0:							
deprecated since 6.6.6.						Arguments that reflect ESMF's	
						accelerator support strategy better have	Code that uses the "accDeviceCount"
						become available in the general	argument should be changed to using the
ESMF_VMGet	accDeviceCount	accDeviceCount	yes	51.6.19	51.6.19	ESMF_VMGet() method (51.6.18).	alternative arguments from 51.6.18.
deprecated since 8.5.0:							Code that currently passes the "delayout"
						This argument was never used internally,	argument into ESMF ConfigLoadFile
						and it is unclear what the original	should be changed to not pass this
ESMF_ConfigLoadFile	delayout	delayout	yes	46.3.15	47.3.16	intention was.	argument.
deprecated since 8.1.0:							
ESMF_FieldBundleSMM	zeroregion	zeroregion	yes	25.5.33	25.5.33	Replaced with zeroregionflag for consistency.	Code that uses the "zeroregion" argument should be changed to using the "zeroregionflag" argument.
	20.0.03.01	20.0.030	,,,,	20.0.00	20.0.00	consistency.	Code that uses the "weights" argument should be changed to using the "factorList" argument. Code that uses the
ESMF_FieldRegridStore	weights, indices	weights, indices	yes	26.6.60	26.6.67	Replaced with factorList and factorIndexList for consistency.	"idices" argument should be changed to using the "factorIndexList" argument.
							Code that uses the "zeroregion"
ESMF_ArrayBundleSMM	zeroregion	zeroregion	yes	27.5.23	27.5.23	Replaced with zeroregionflag for consistency.	argument should be changed to using the "zeroregionflag" argument.
deprecated since 5.2.0rp1:							
ESMF_ArrayGet	localDeList	localDeList	ves	28.5.18	28.5.18	Replaced with localDeToDeMap for consistency.	Code that uses the "localDeList" argument should be changed to using the "localDeToDeMap" argument.