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Keywords Authors	<u>Abstract:</u> We consider maximal singular integral operators arising from rough kernels satisfying an H ¹ - type condition on the unit (n-1)-sphere and prove weighted L ^p estimates for certain radial weights. We also prove weighted L ^p estimates with A _p -weights where in this case the H ¹ -type condition is replaced
(0)	by an L ^q -type condition with q > 1. Some applications of these results are also obtained regarding singular integrals and Marcinkiewicz integrals. Our results are essential extensions and improvements of some known results.
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math@tubitak.gov.tr	Key Words: L ^p boundedness, Hardy space, maximal operators, Fourier transform, rough kernel, A _p weight
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